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INDIGENOUS FODDER GRASSES

OF THE

PLAINS OF NORTH-WESTERN INDIA.

ILLUSTRATIONS

OF THE

INDIGENOUS FODDER GRASSES

OF THE

PLAINS OF NORTH-WESTERN INDIA.

ROORKEE:

NATURE-PRINTED AT THE THOMASON CIVIL ENGINEERING COLLEGE PRESS.

1886.

BOOKEE :

JHOS. D. ROSA, SUPERINTENDENT.

THOMAS-ON COLLEGE PRESS.

PREFACE.

The increasing demand for reliable information concerning the various grasses used in this country, either as fodder or forage, has induced me to collect materials for the preparation of a work embodying all the available information on this very important subject.

This volume of Plates is now offered as a contribution towards a better knowledge of some of the more important fodder grasses occurring on the plains of Northern India.

The Plates are nature-printed impressions, executed by a process which has lately been brought to a state of great perfection by Mr. T. D. Bona, Superintendent of the Thomason College Press, Roorkee. One obvious advantage of this process is that it does away with the necessity of preparing drawings as for ordinary lithography, except of course in cases where anatomical dissections are required to be given. I can fully testify to the accuracy of these Plates; and in the majority of them Mr. Bona has succeeded admirably in securing the characteristic habit of the plant. I am very much indebted to him for the care and trouble he has taken with them.

Vernacular names have been given in cases only where the adoption of such names has been found to extend over any considerable area. All merely local names will find a place in the descriptive letterpress, which I hope to have ready by next cold season.

GOVERNMENT BOTANICAL GARDENS:

SAHARANPUR,

1st April, 1886.

J. F. DUTHIE.

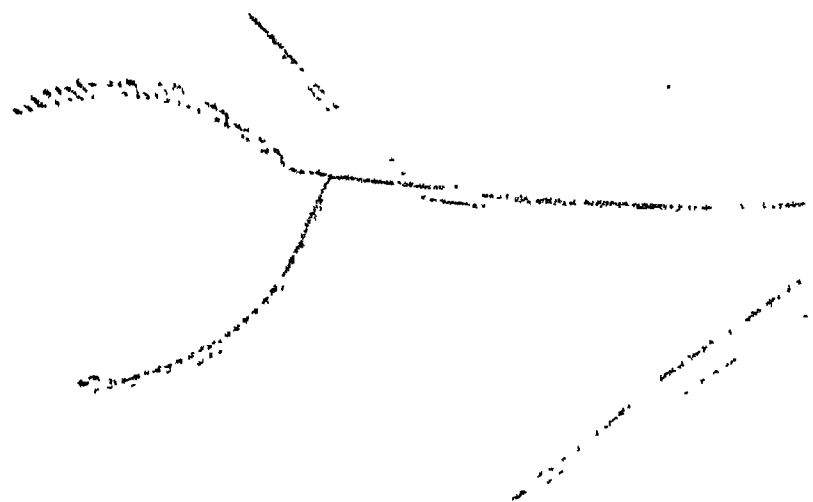
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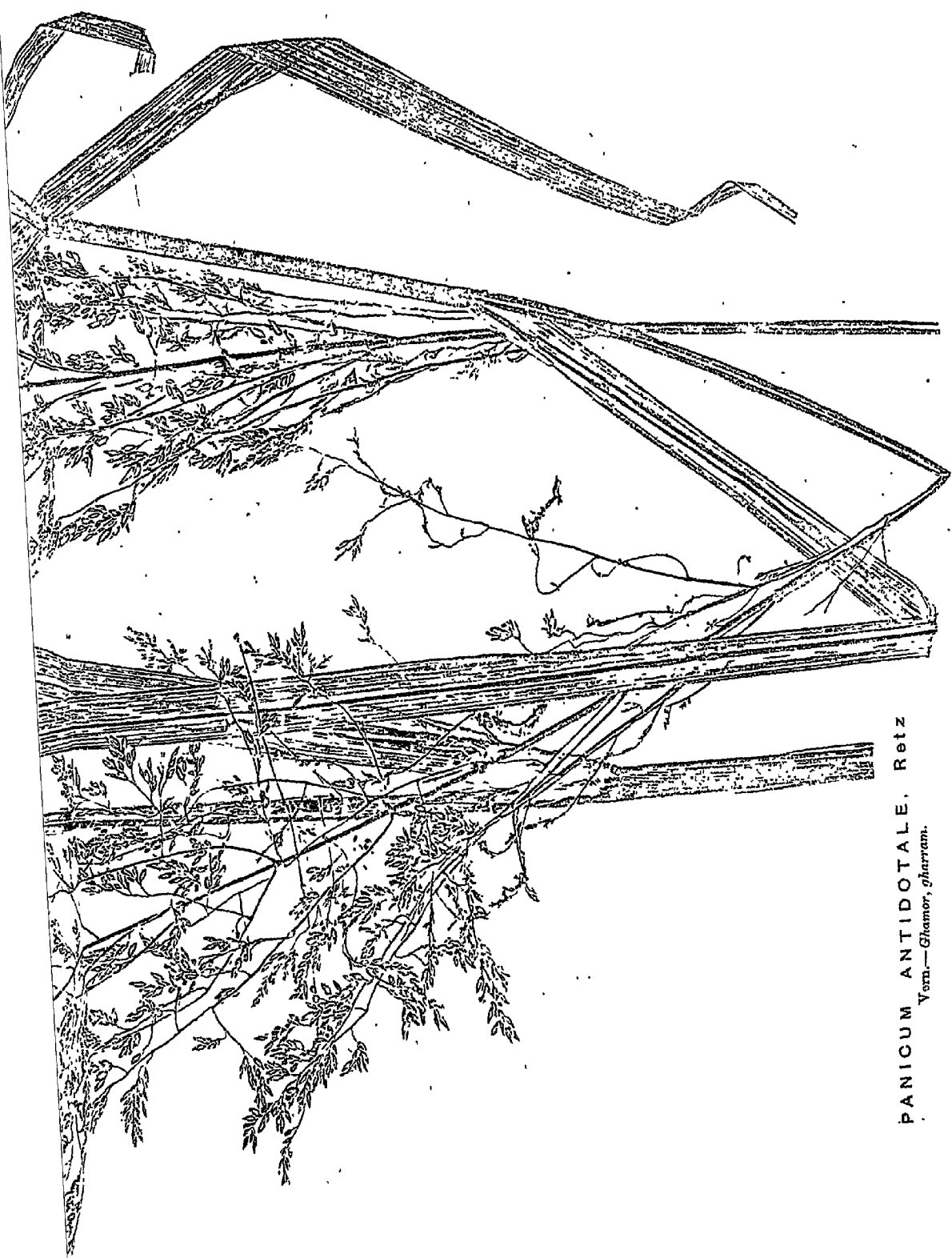


PASPALUM SCROBICULATUM, Linn.
Vern.—*Kodon*.

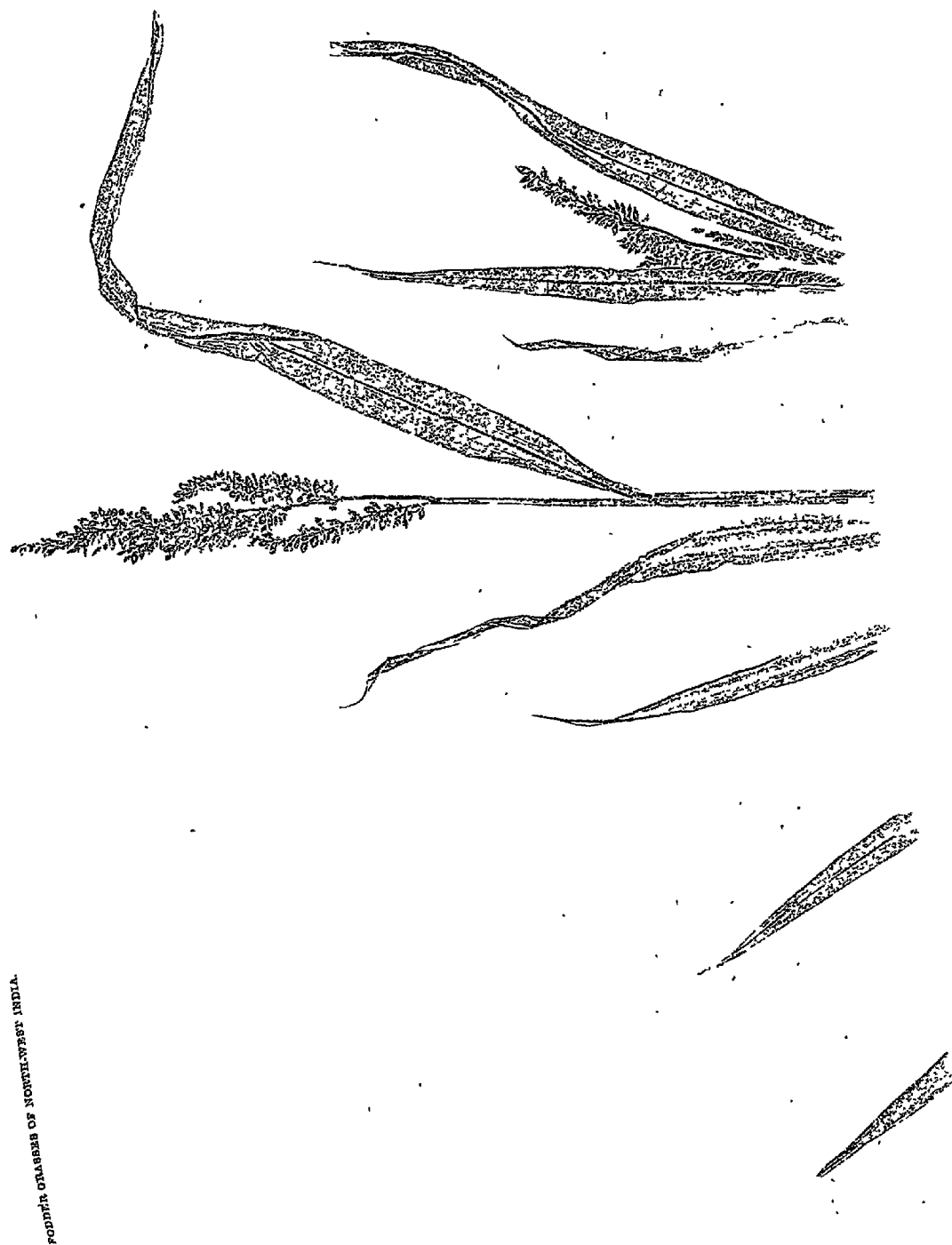


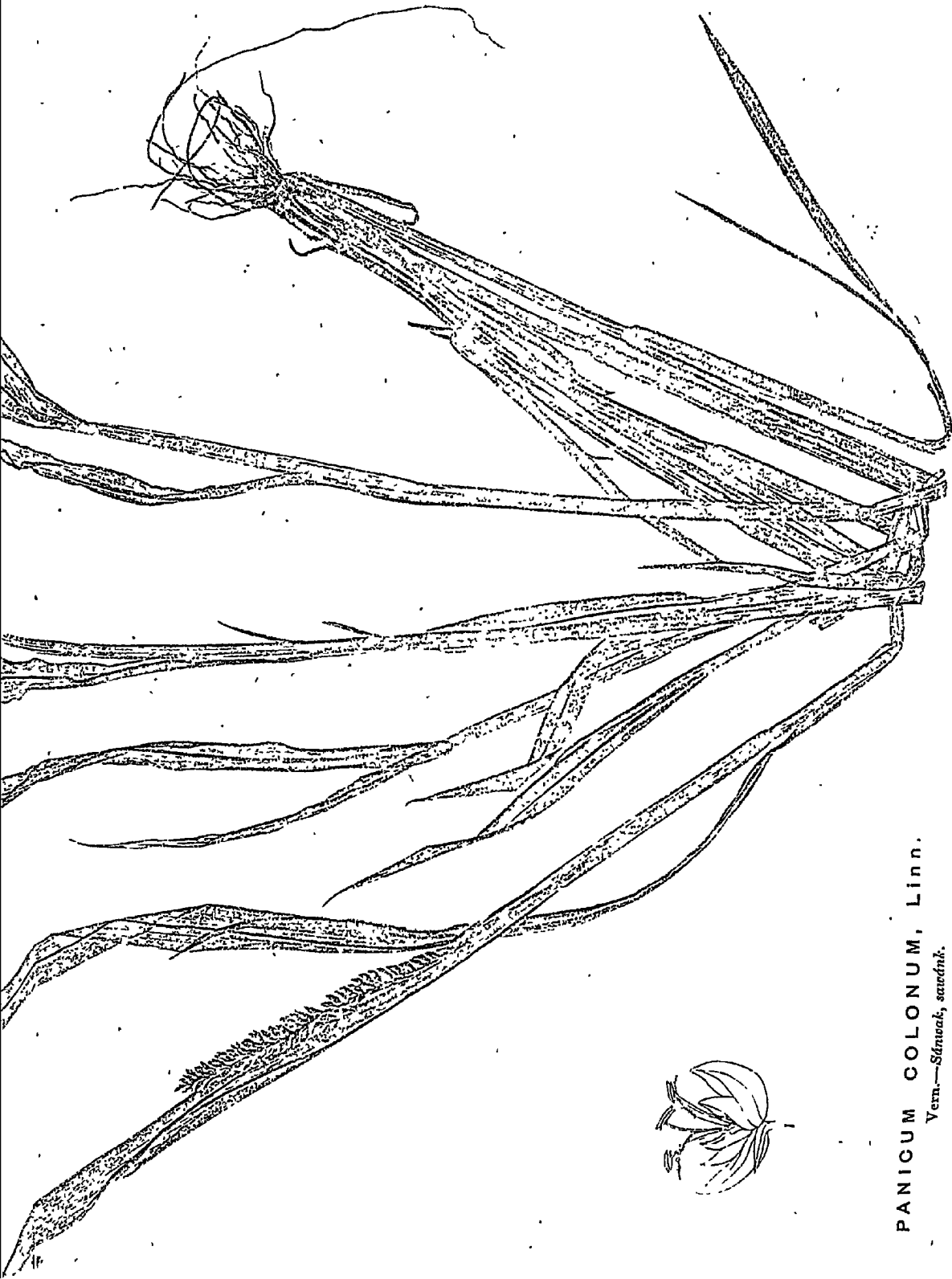


PASPALUM KORA, Willd.

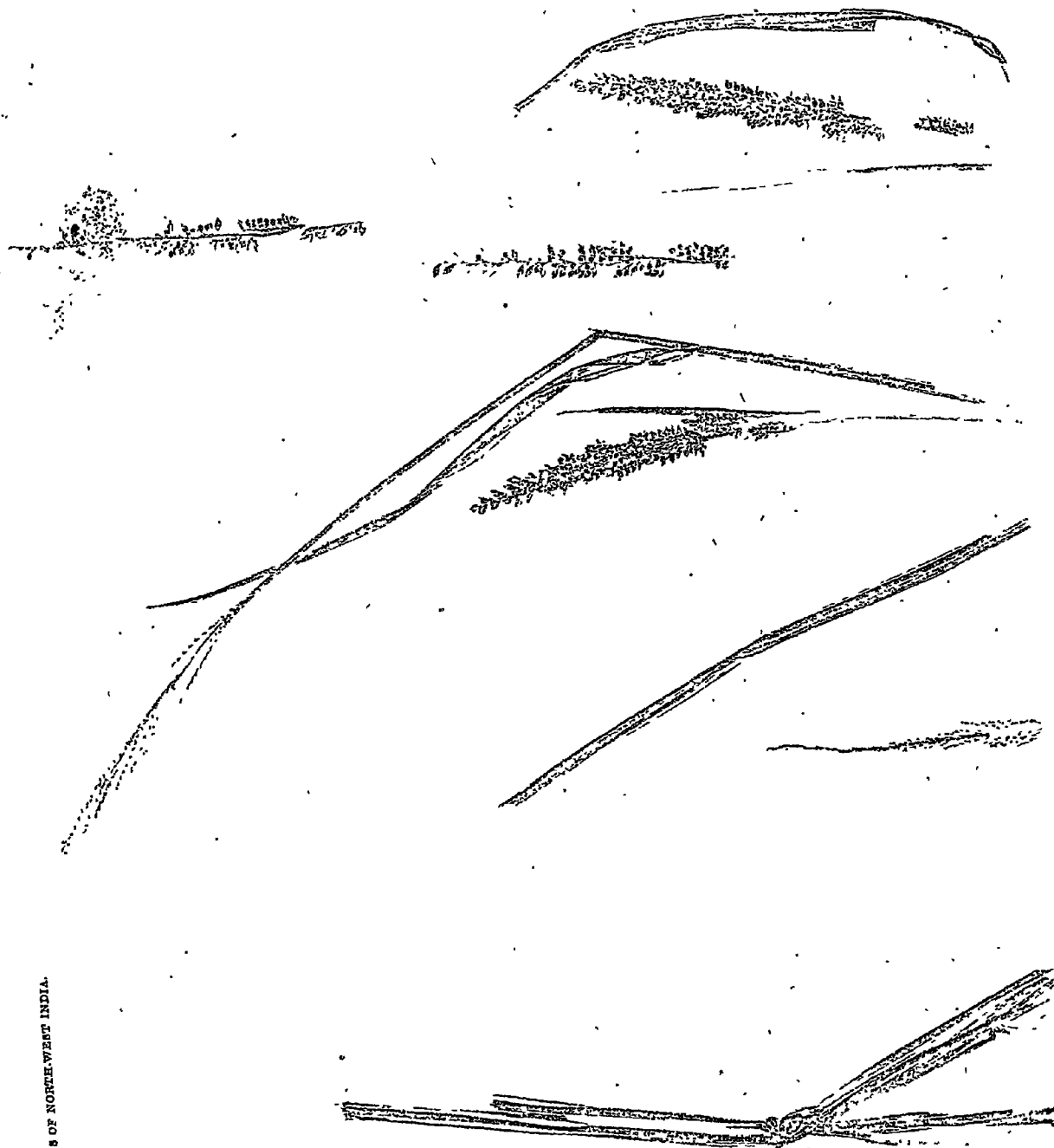


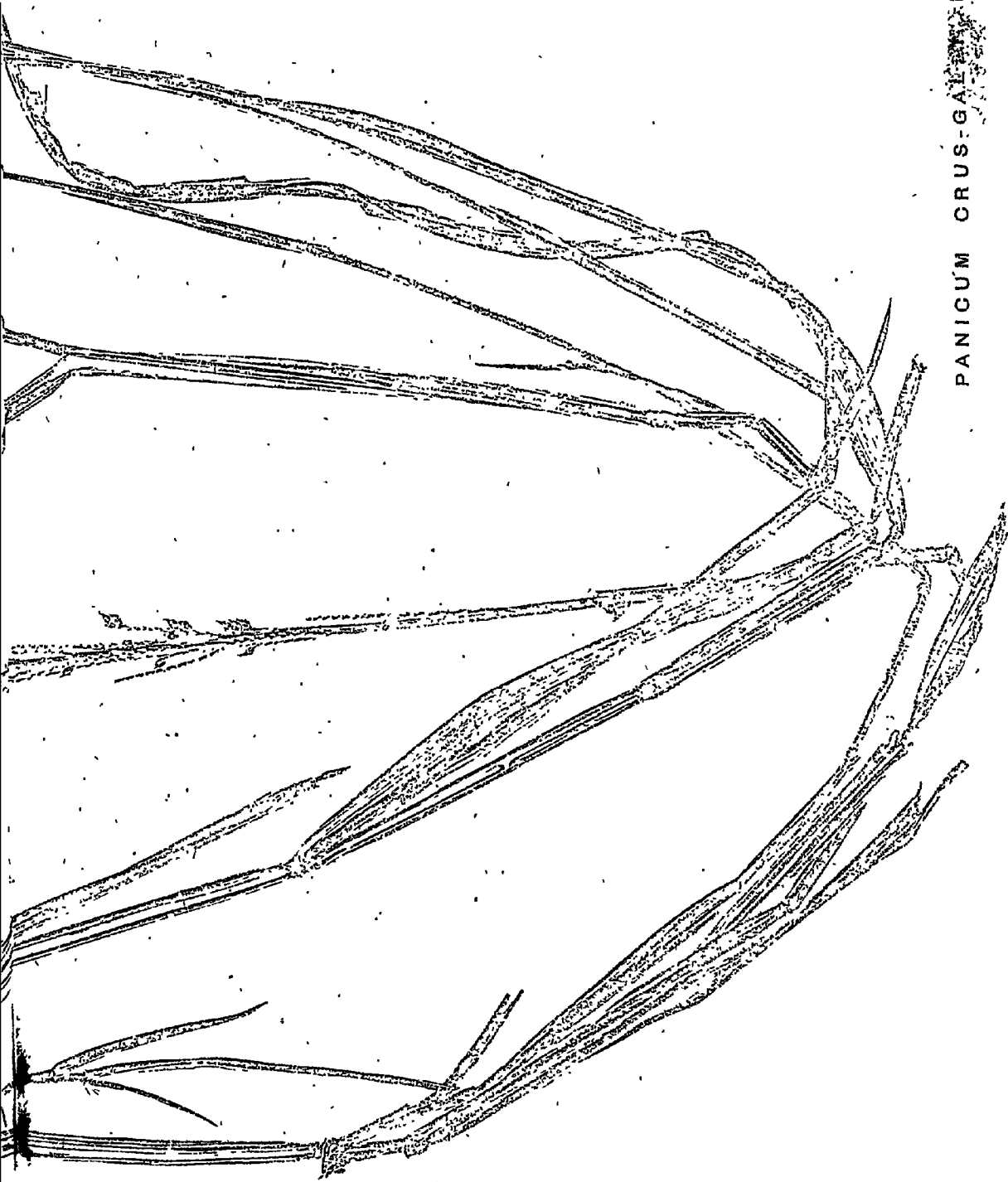
PANICUM ANTIDOTALE, Retz
Vern.—Ghamor, gharra.





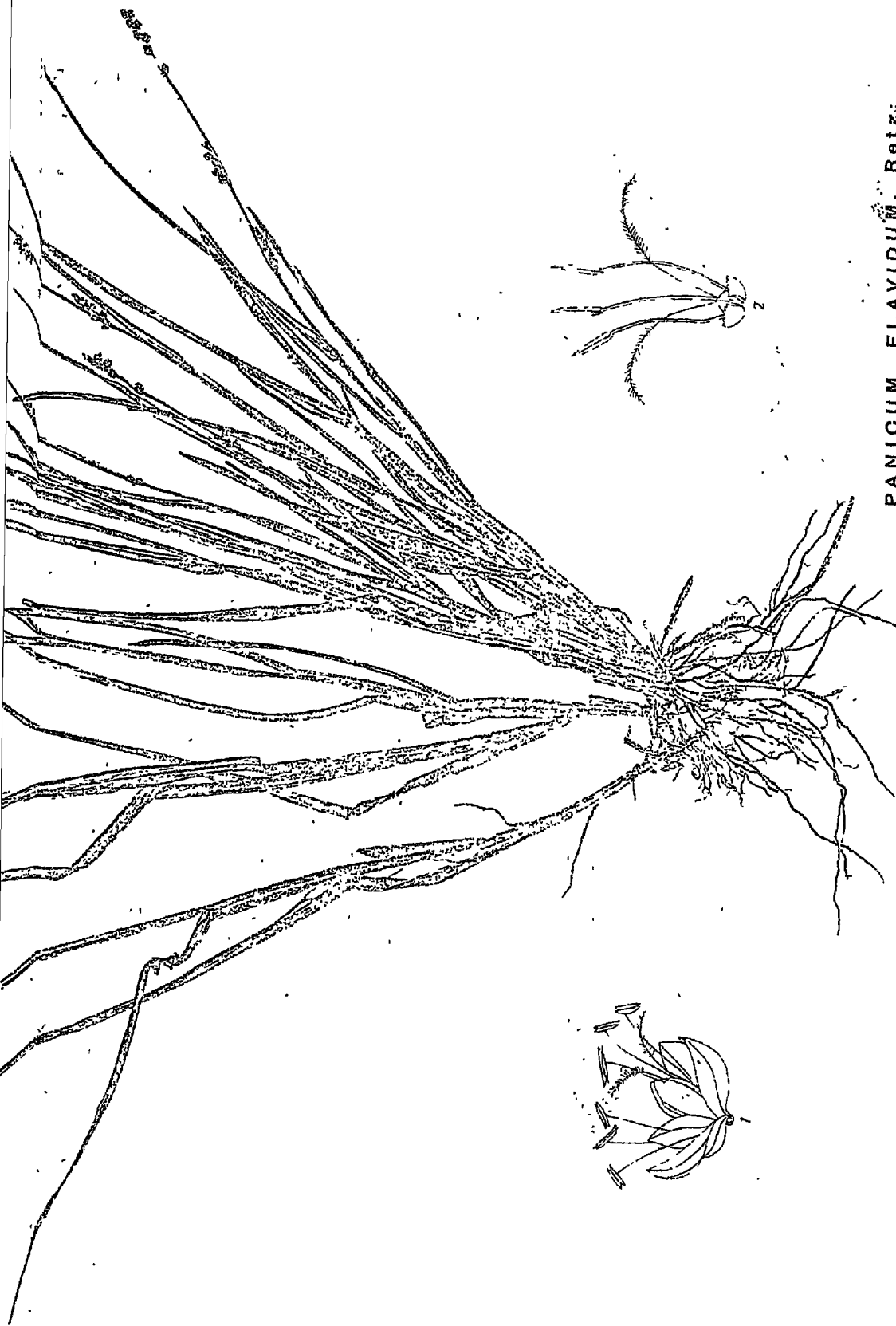
PANICUM COLONUM, Linn.
 Vern.—*Sánuak, saudínak.*



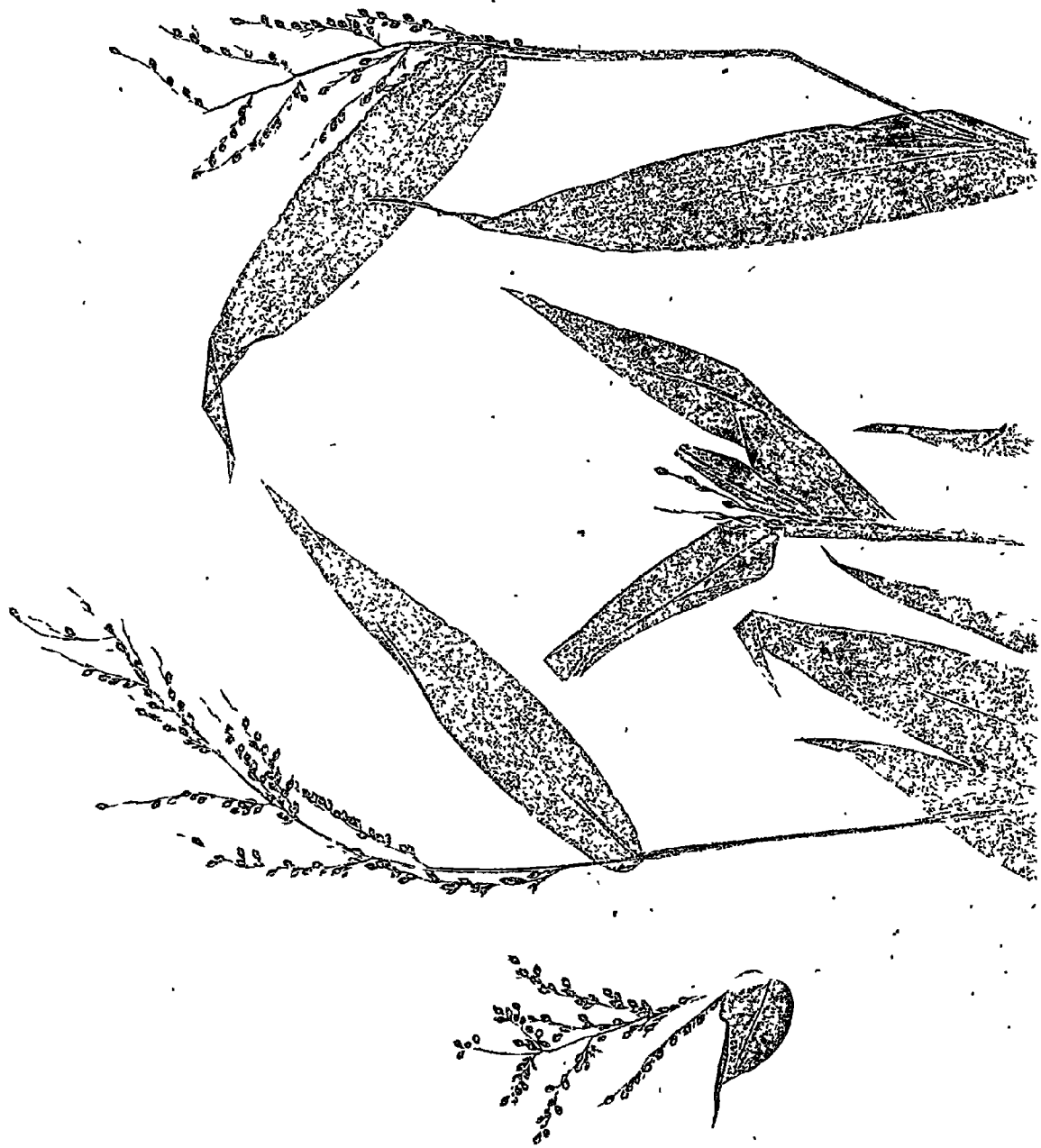


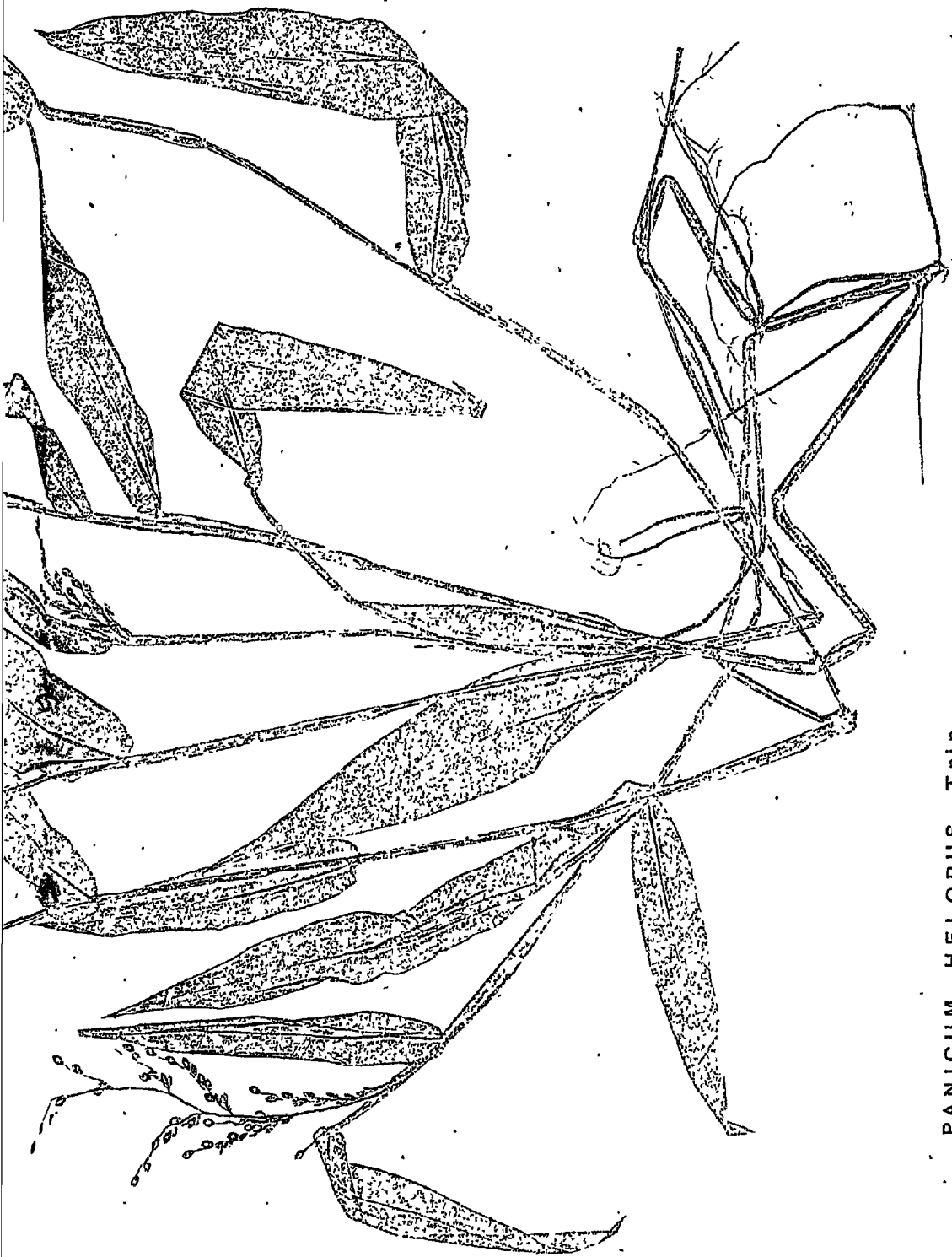
PANICUM CRUS-GALLI Linn.



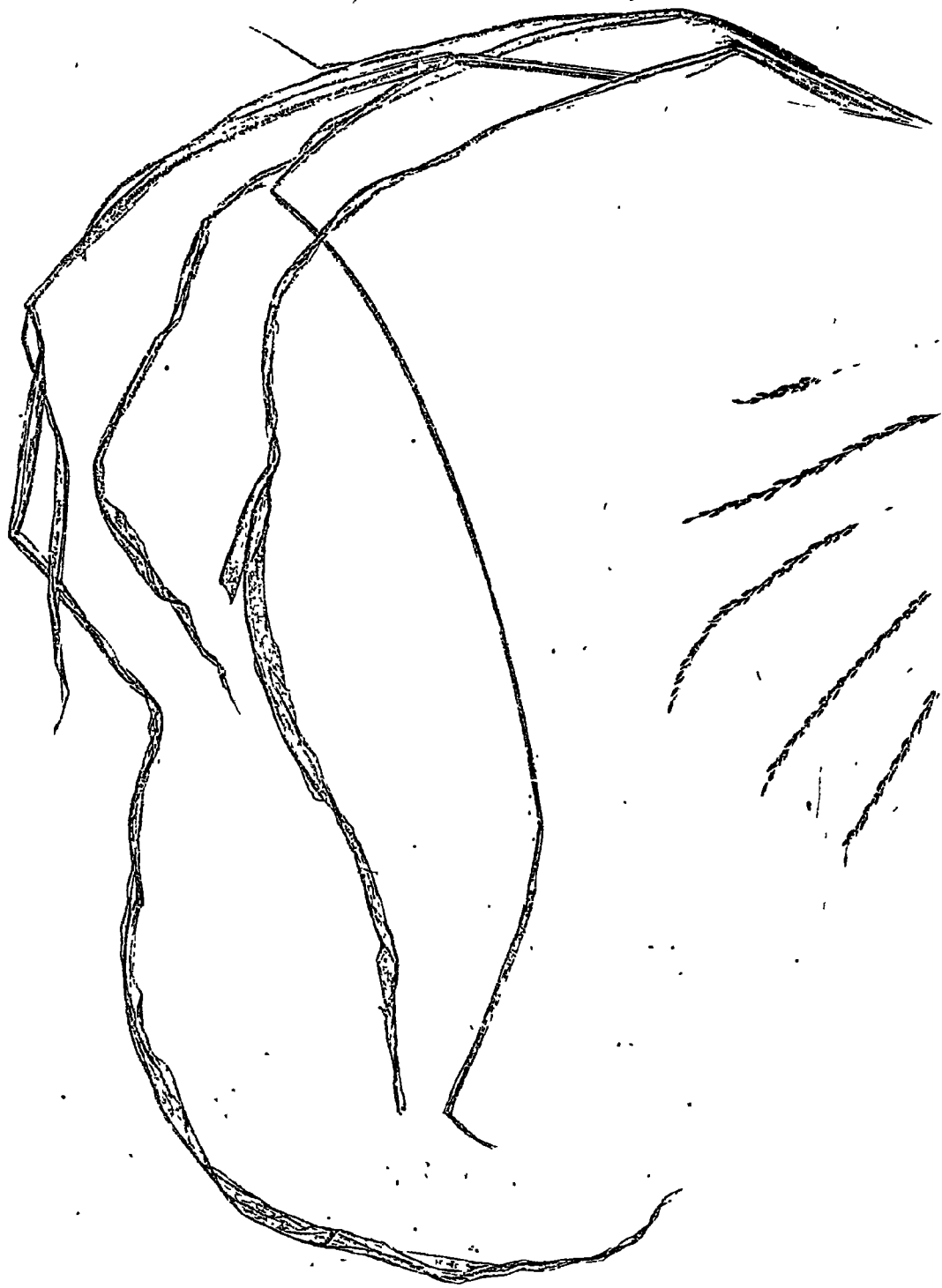


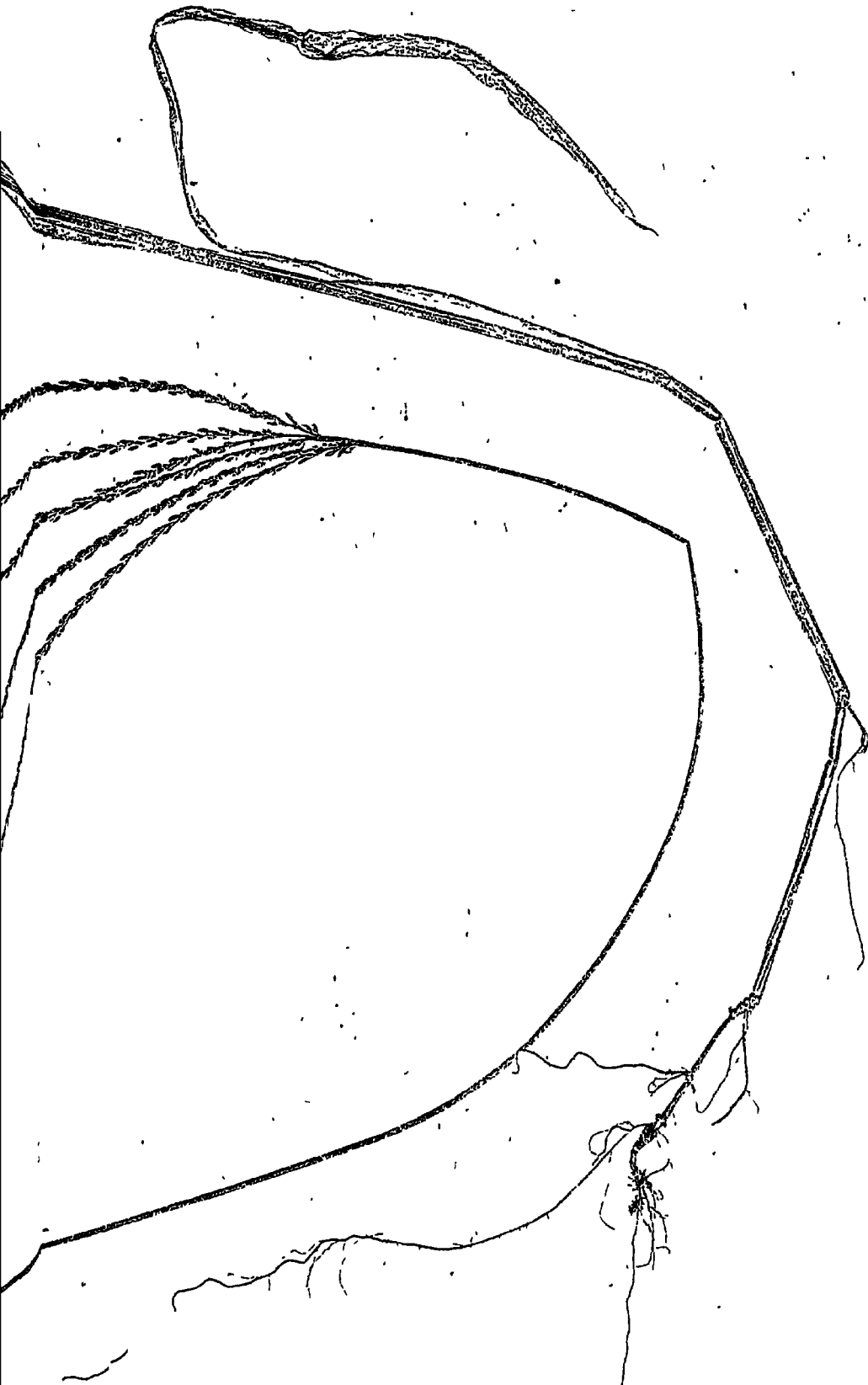
PANICUM FLAVIDUM, Retz.
Vern. - *Alangul*.



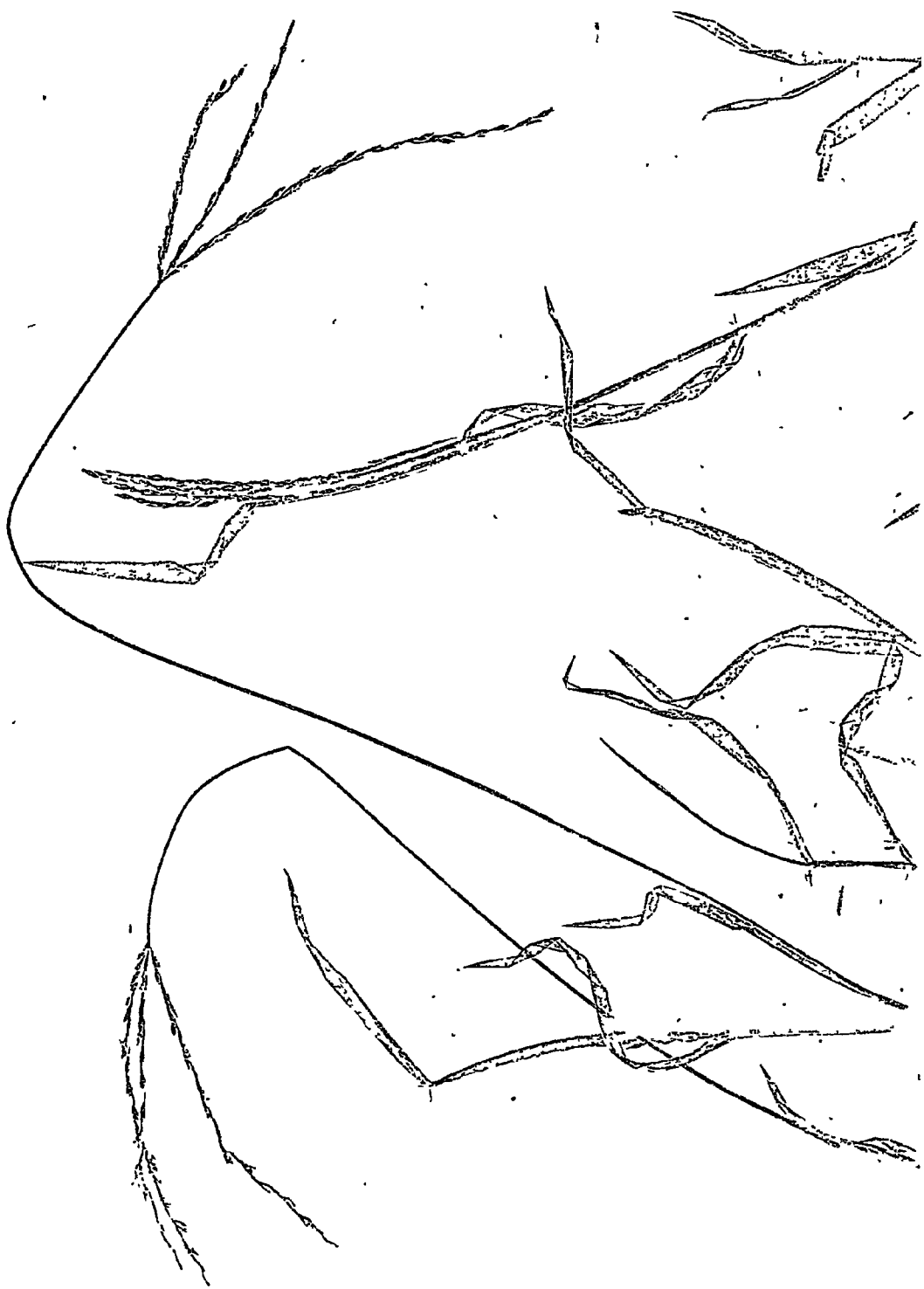


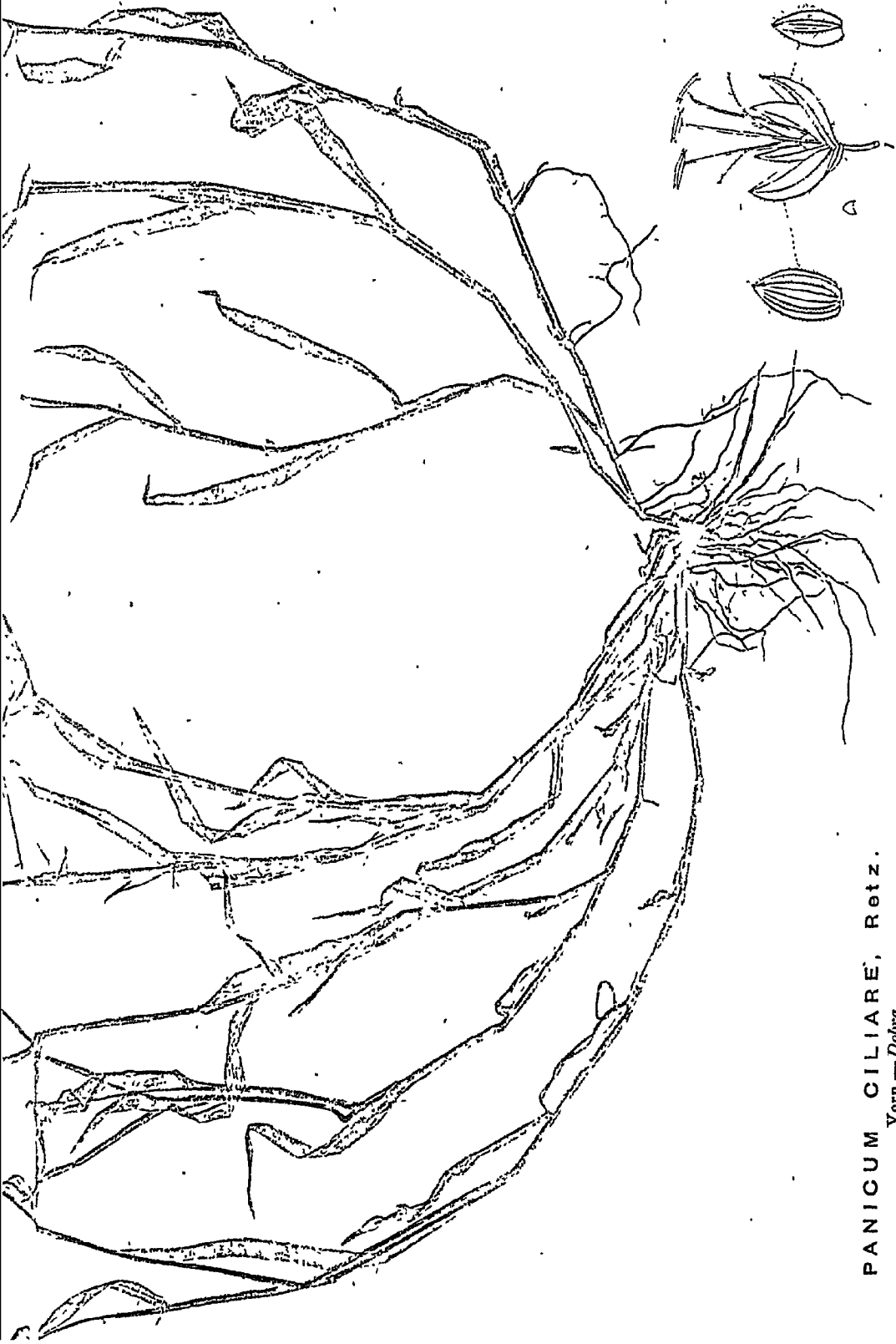
PANICUM HELOPUS, Trin.
Vern.—*Kiri*.



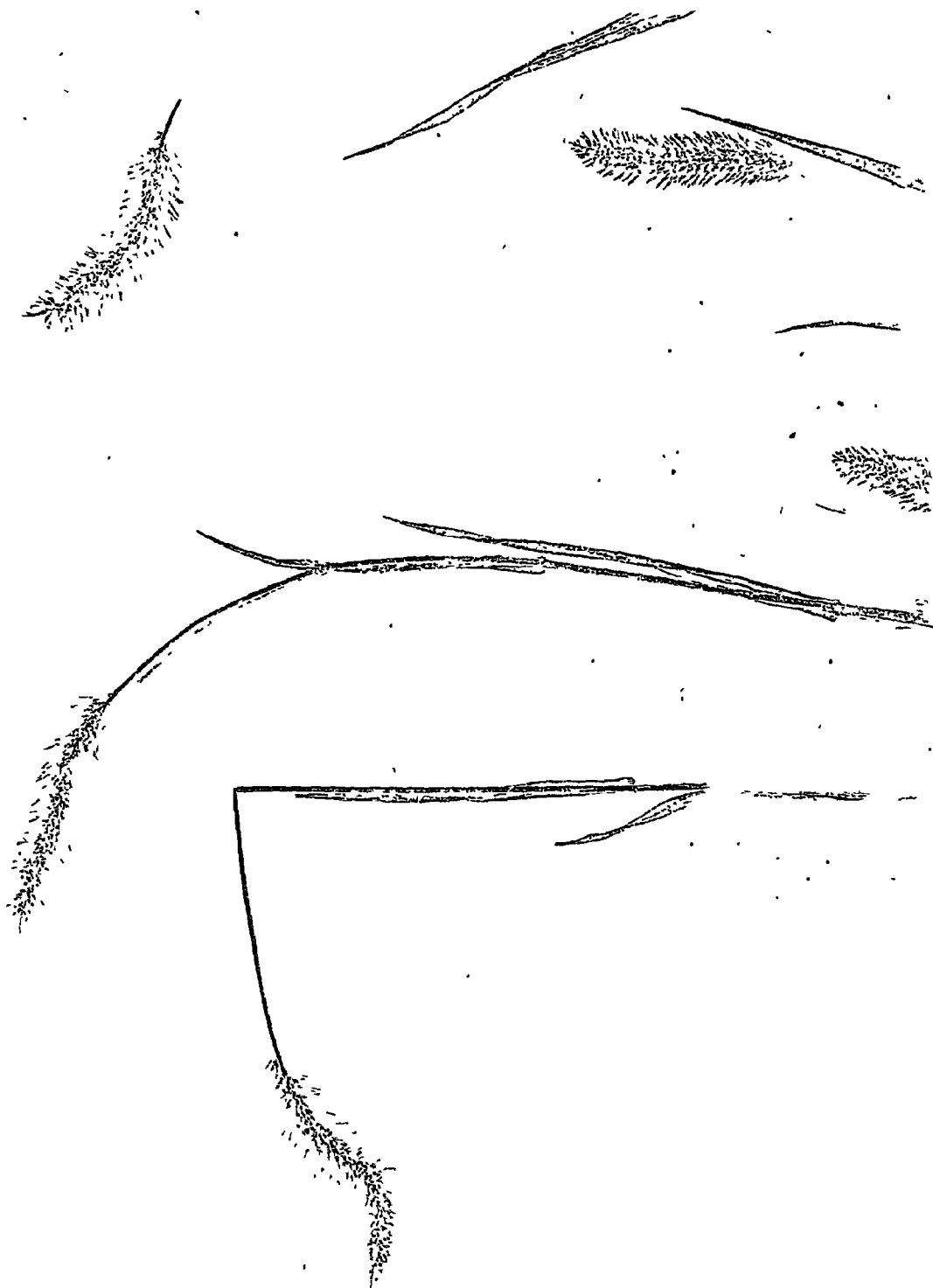


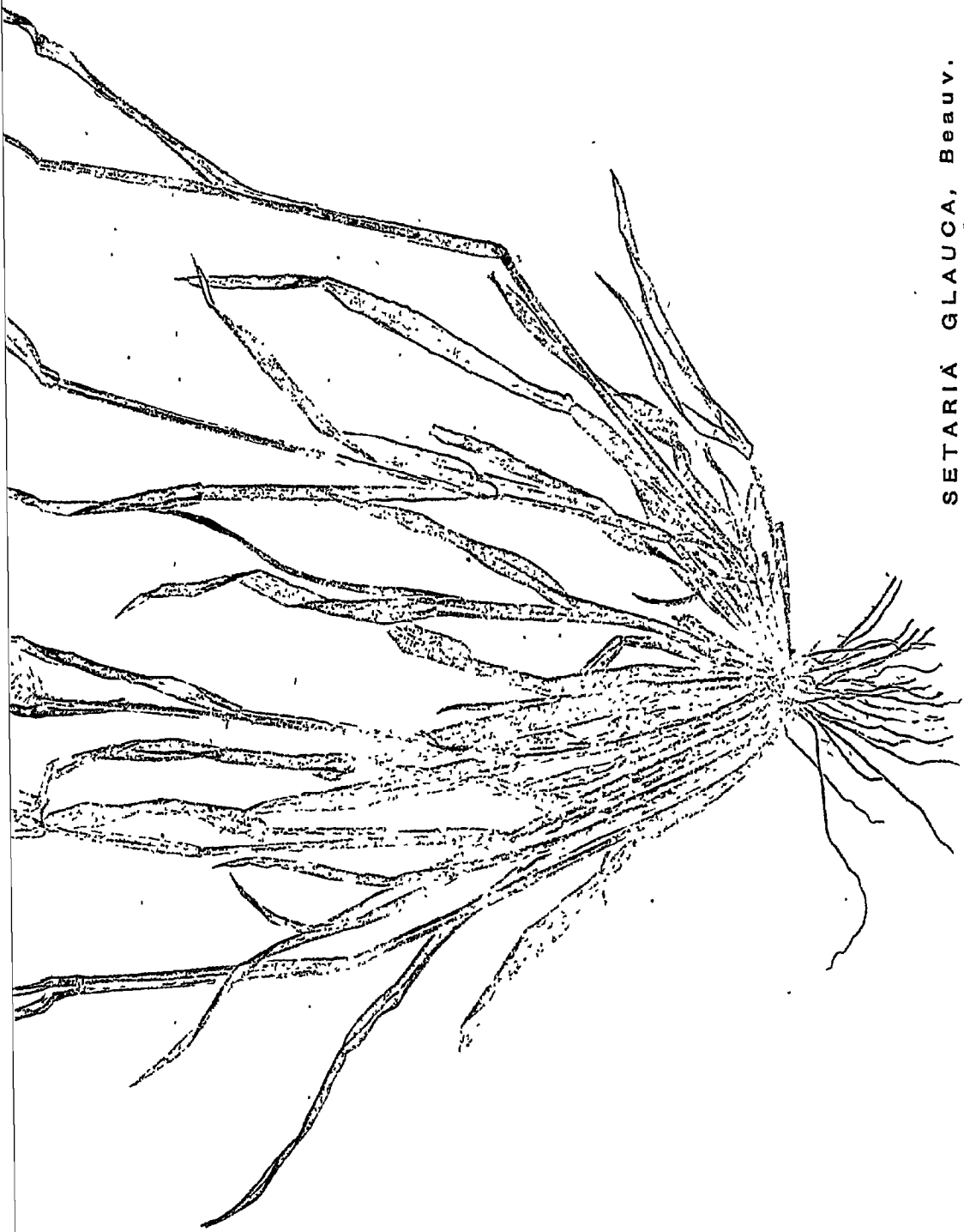
PANICUM SANGUINALE, Linn.
Vern.—Tukri.



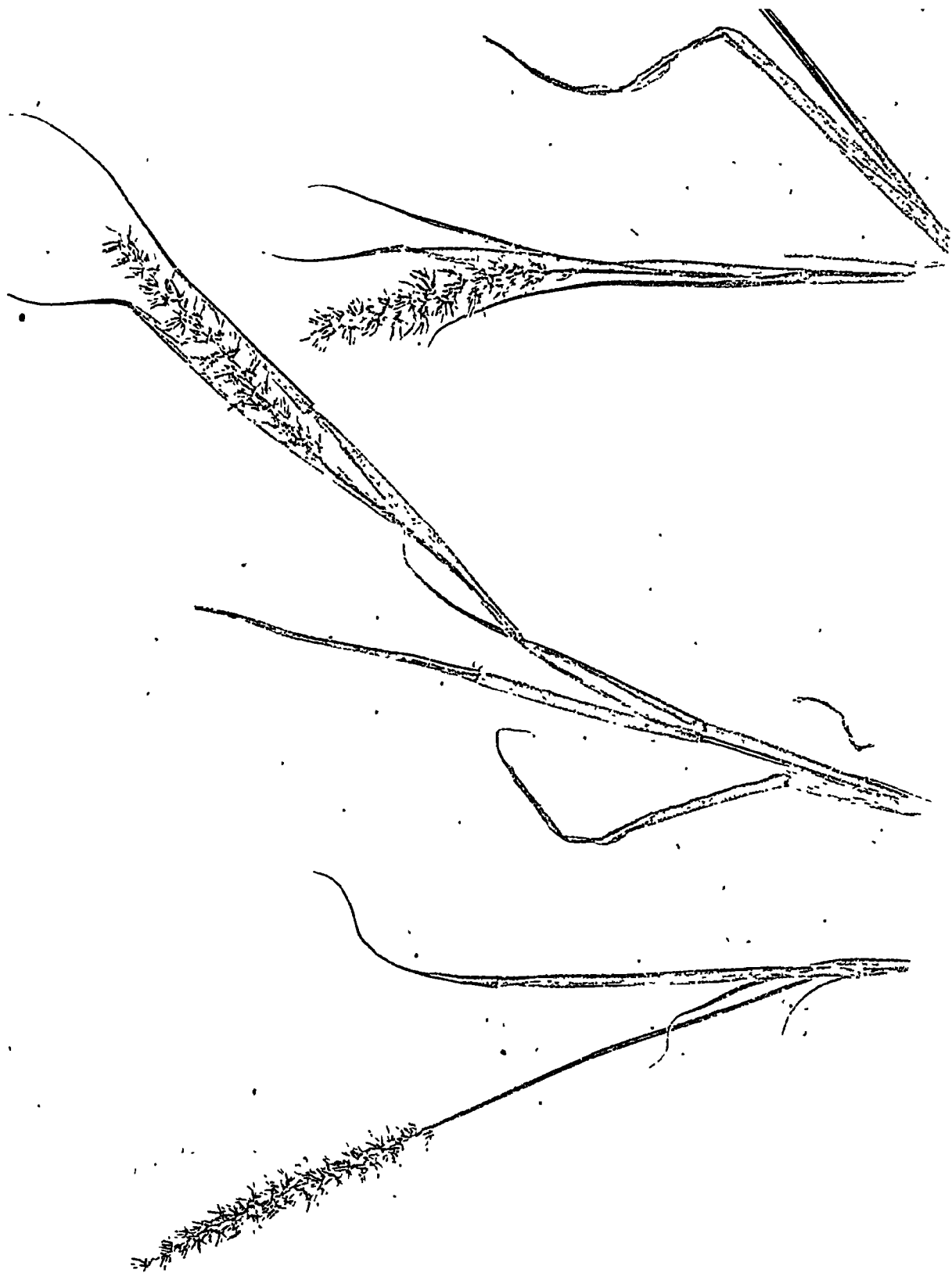


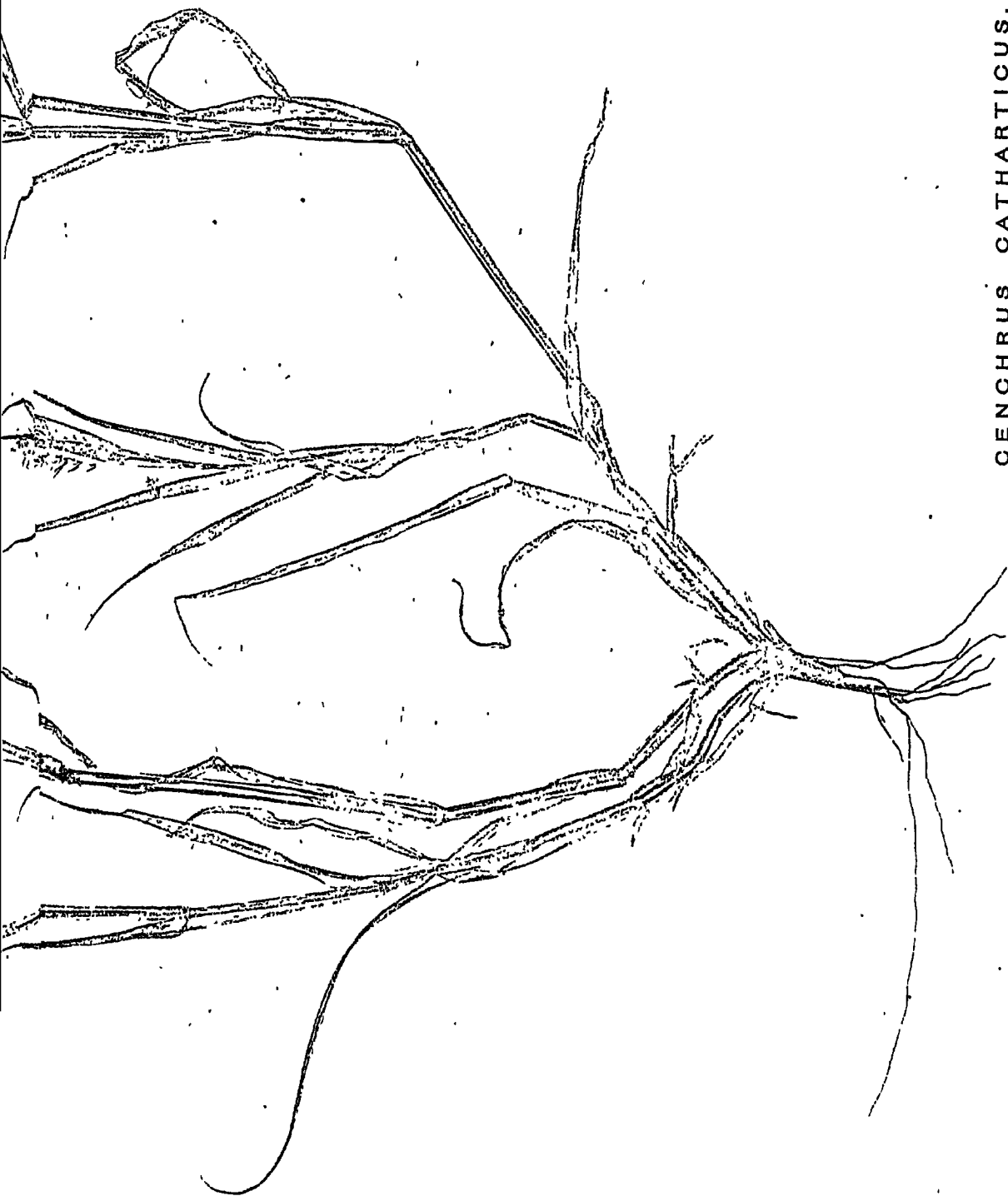
PANICUM CILIARE, Retz.
Vern.—*Dobra*.



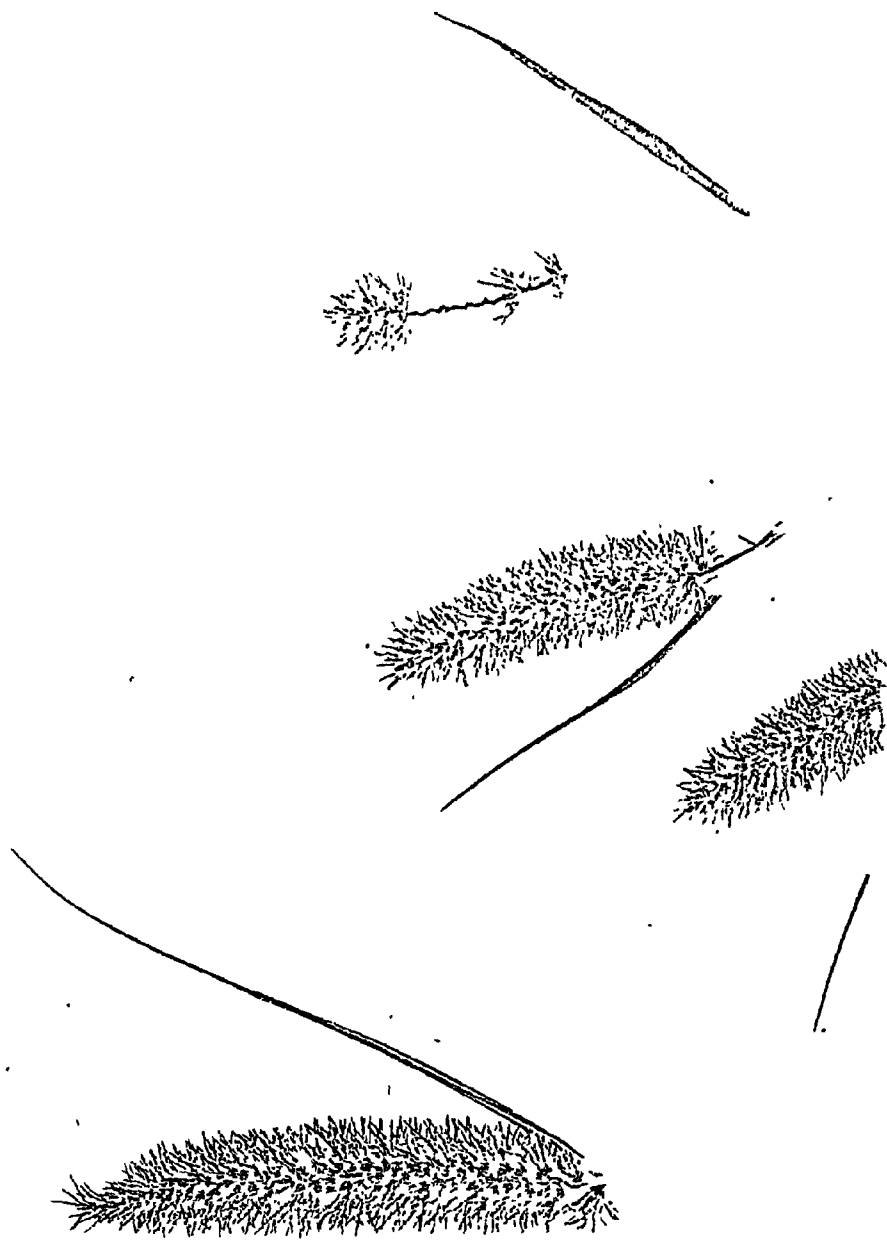


SETARIA GLAUCA, Beauv.
Vern.—*Bandra, kotu*.





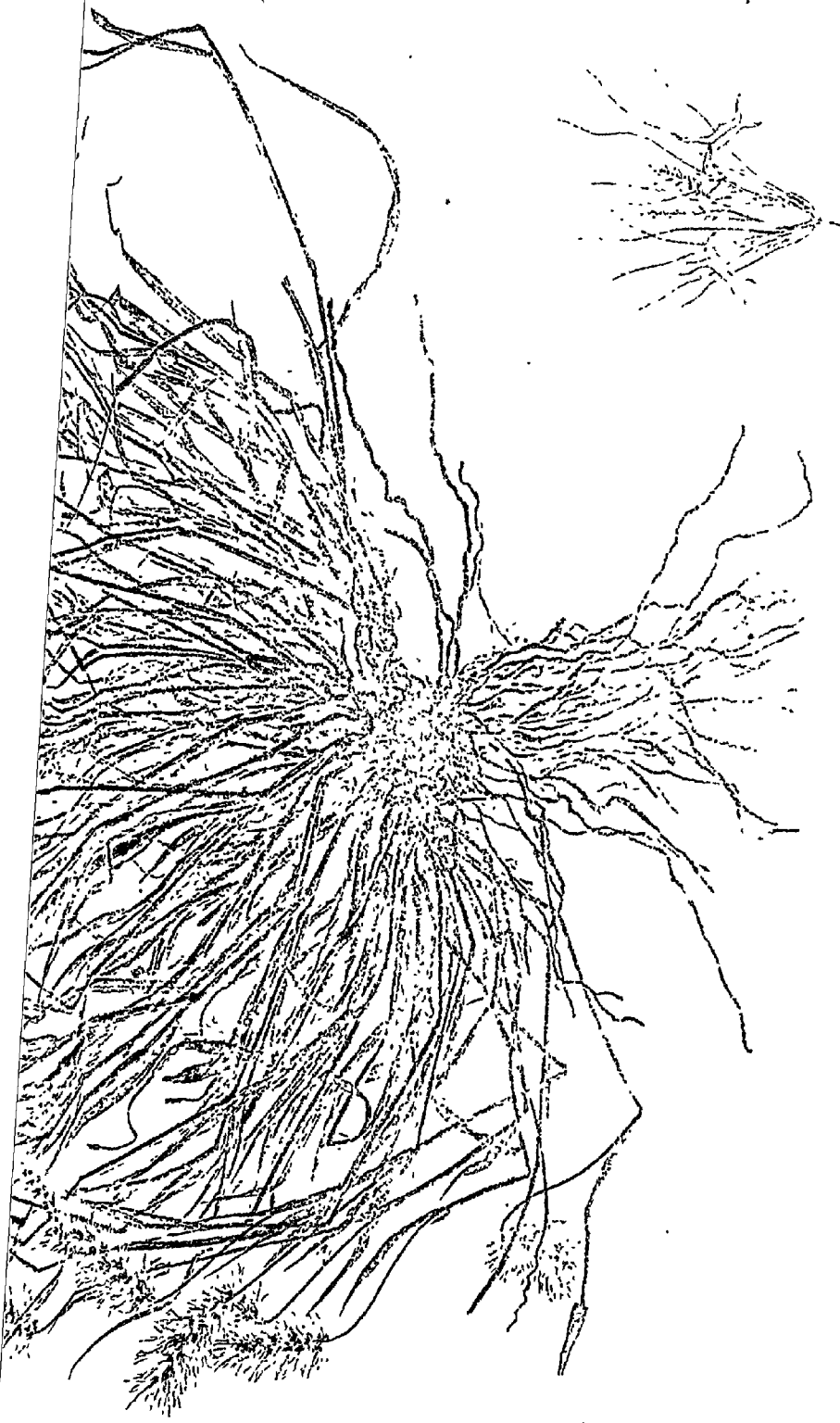
CENCHRUS CATHARTICUS, Del.
Vern.—Bhurt.





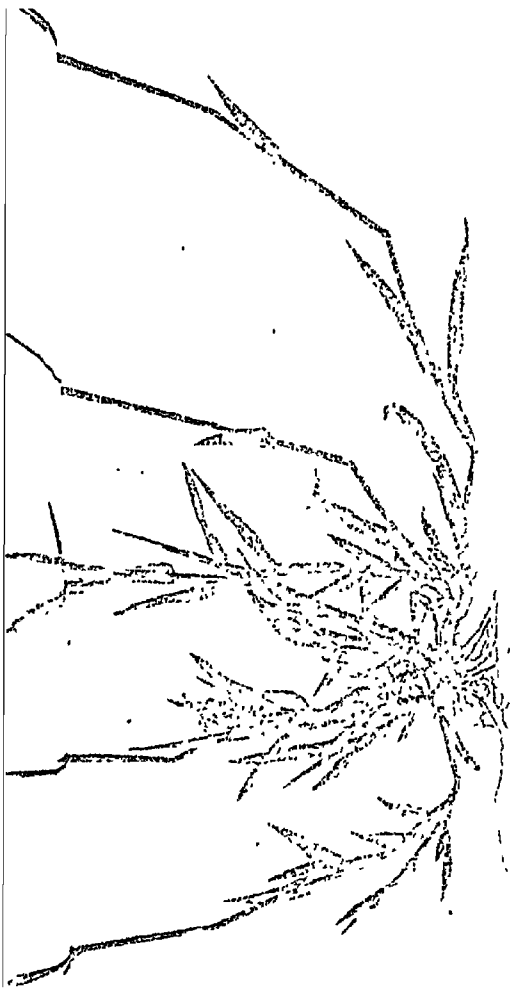
CENCHRUS MONTANUS, Nees.
Vern.—*Anjan* (1), *dhāman* (1), *dhāman* (1).





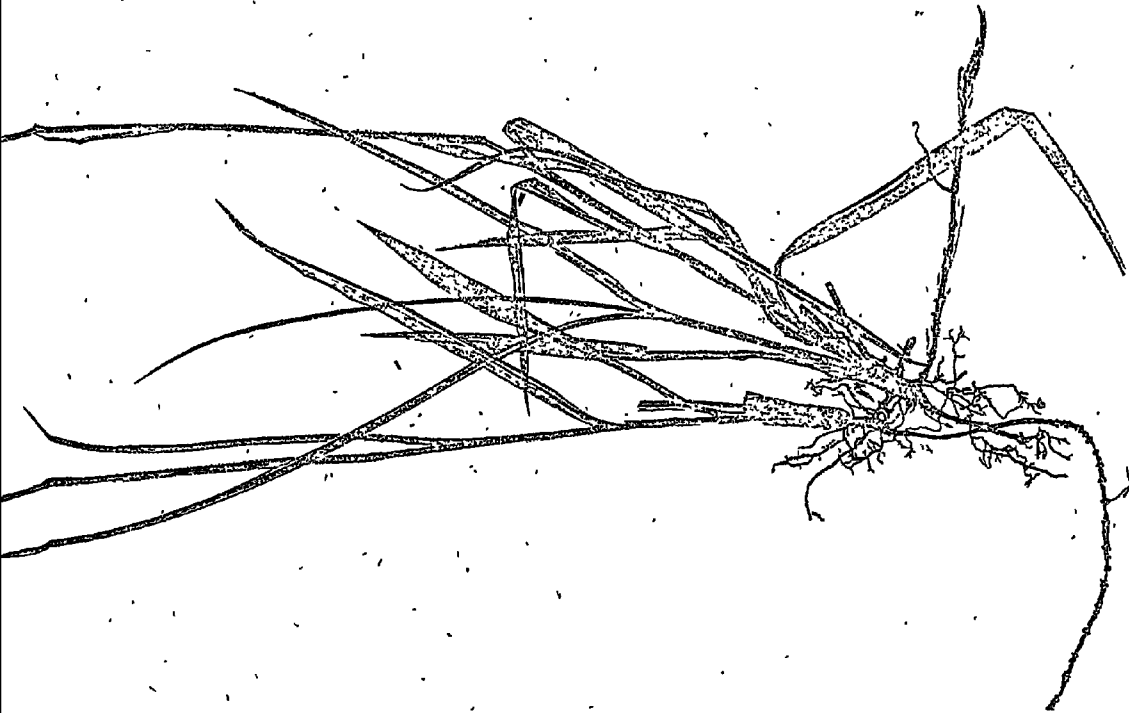
PENNISETUM. CENCHROIDES, Rich.
Vern.—Aojan (?), thánian (?), dhānan (?).





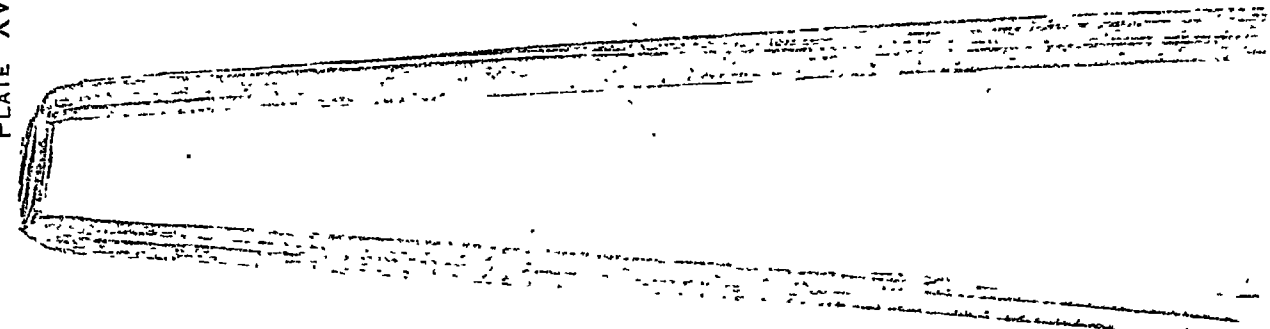
TRAGUS RACEMOSUS, Hall.
Vern.—*Barchint.*

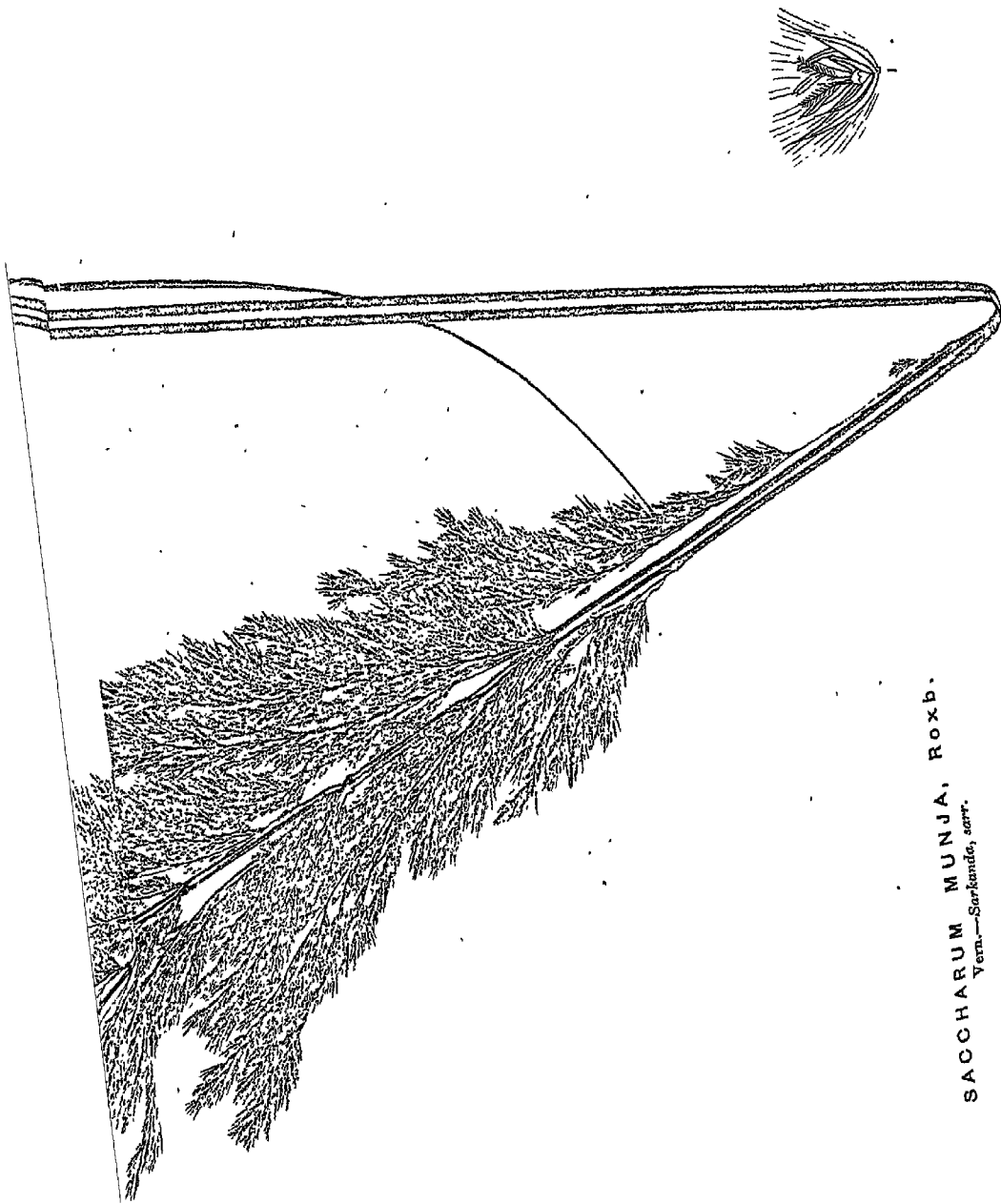




IMPERATA ARUNDINACEA, CYN. III.
Vern.—Siru, 'udu, kusa (A).

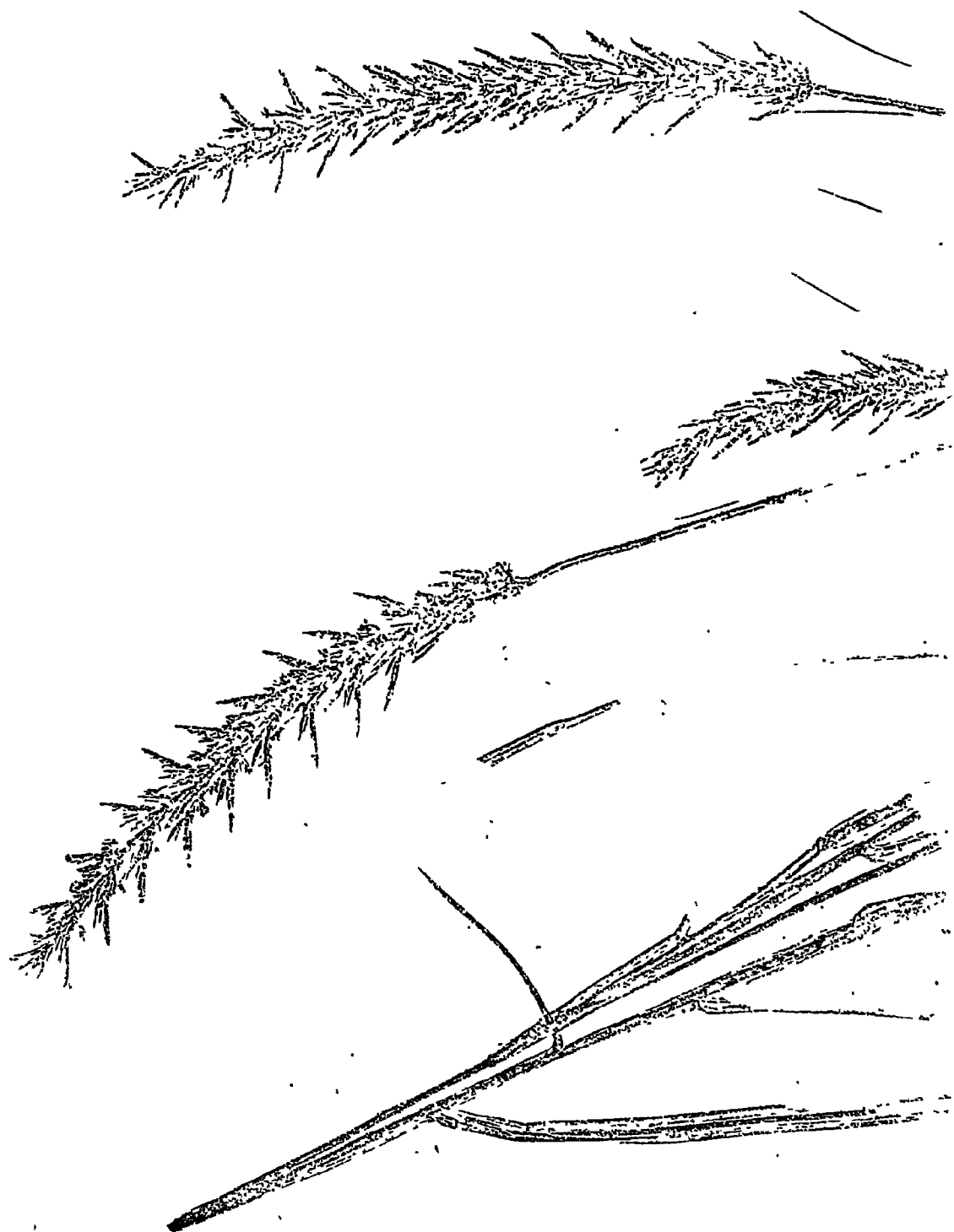


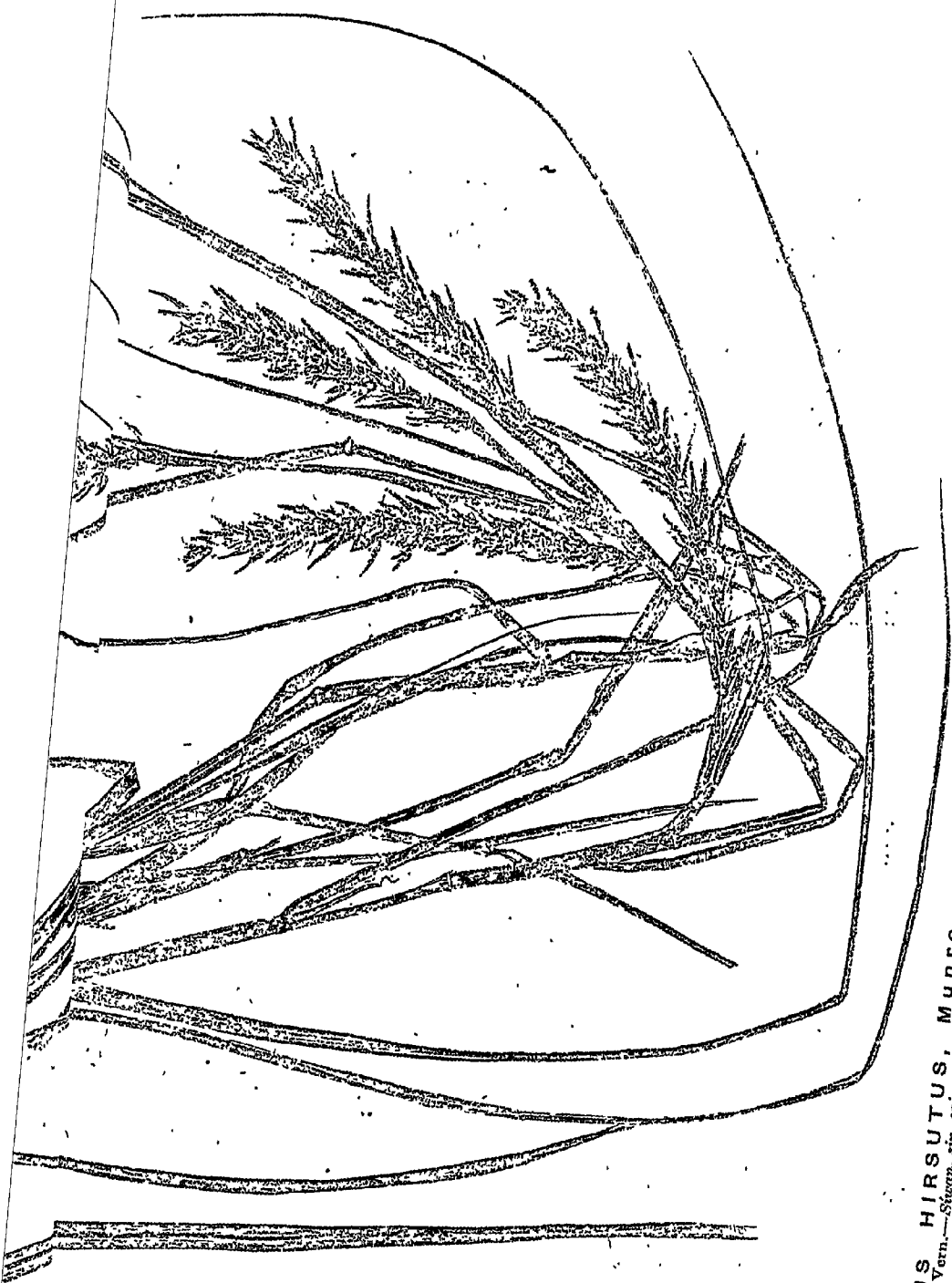




SACCHARUM MUNJA, Roxb.
Vern.—Sarkanda, sar.

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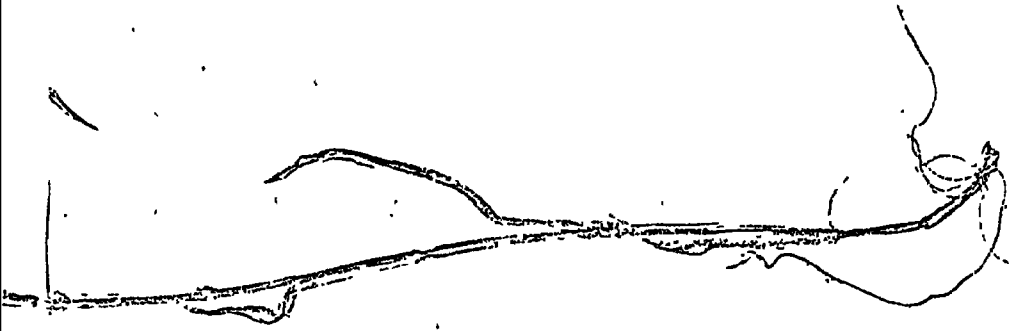
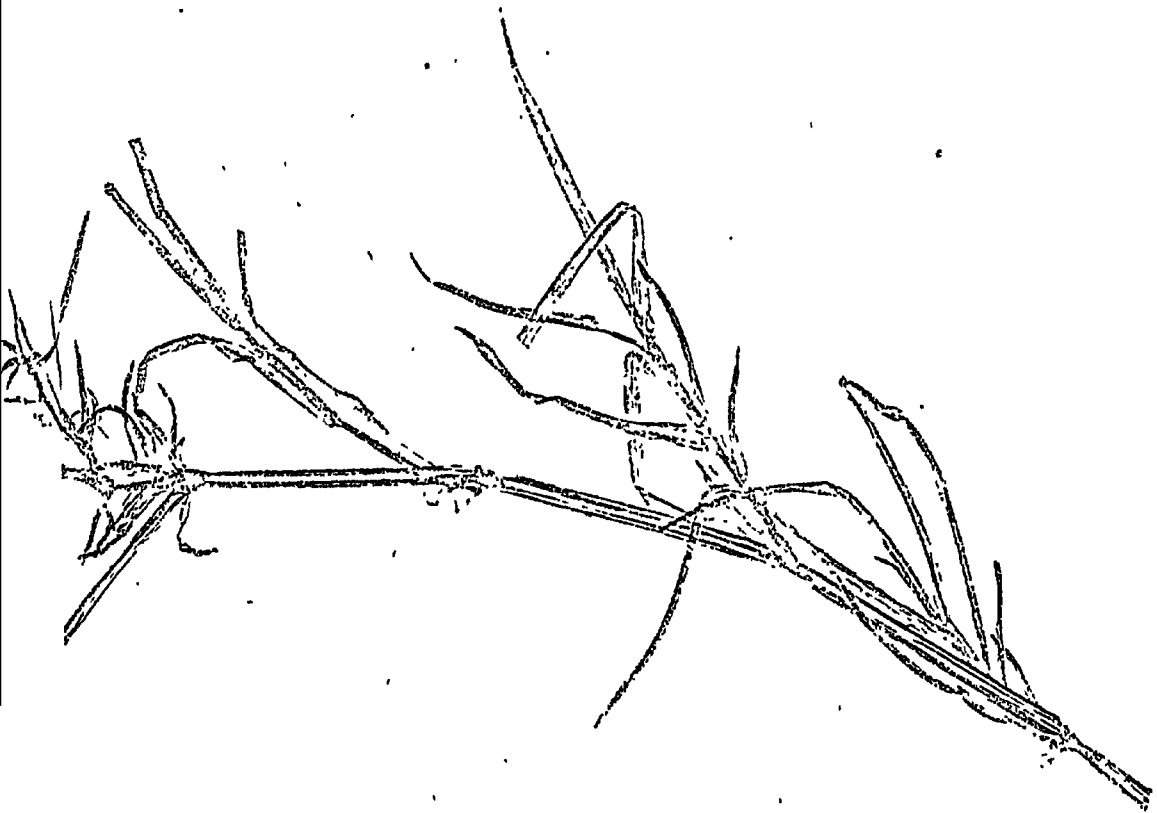




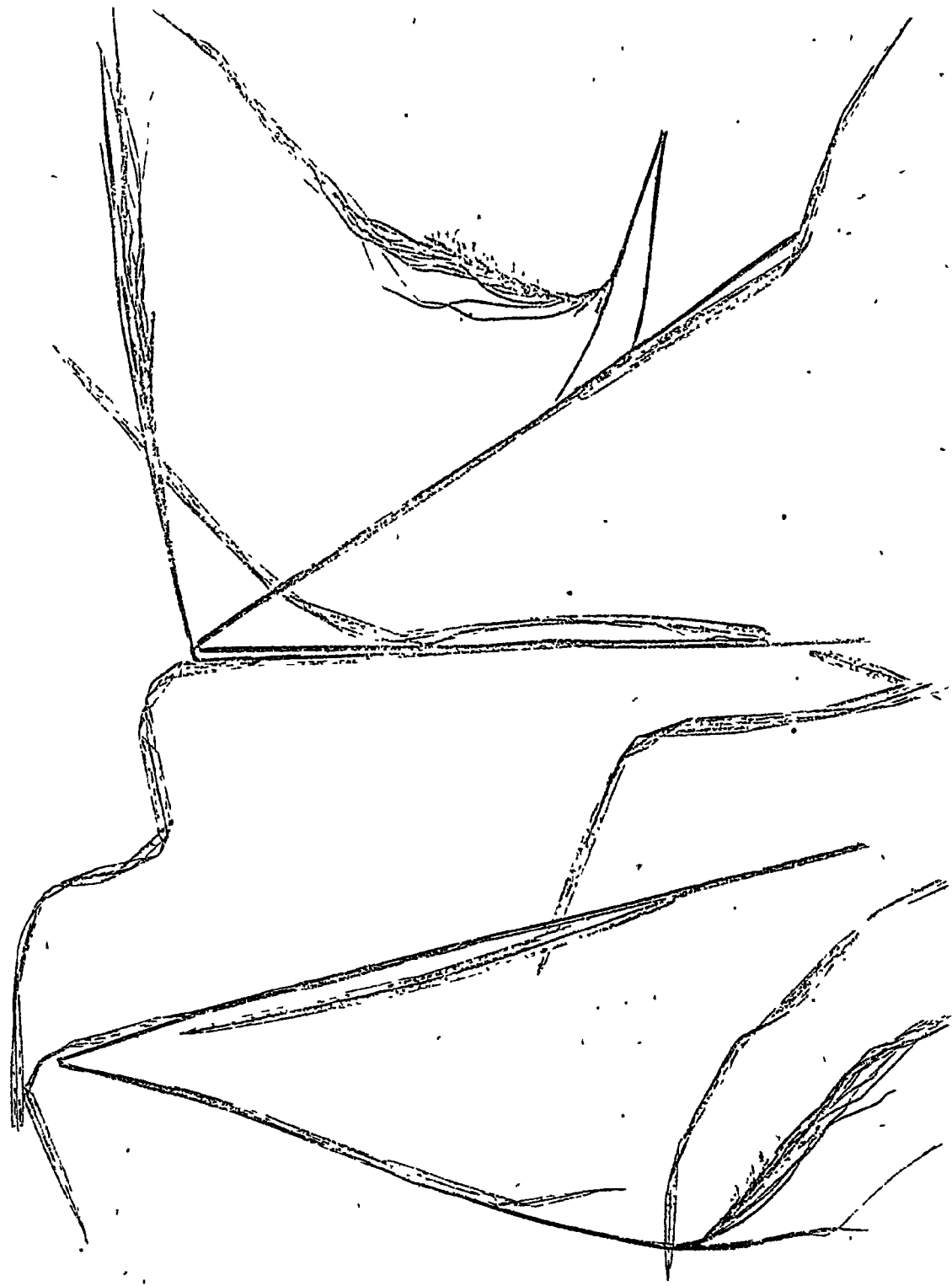
ELIONURUS HIRSUTUS, MUNRO.
Vern.—Súcan, sin, saín.

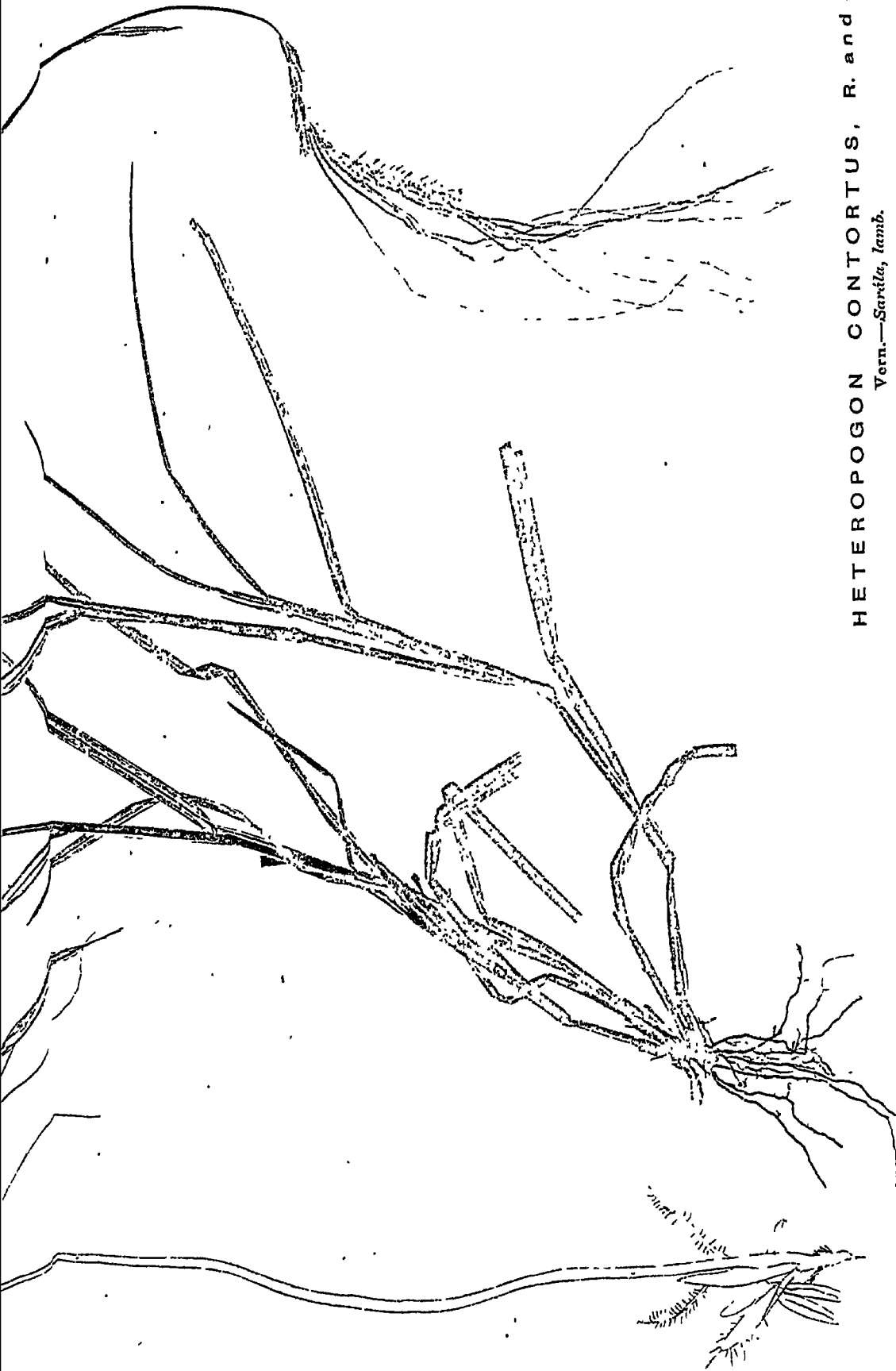
Printed from Nature by Tros D. Nova, Thompson College Press, Knoxville



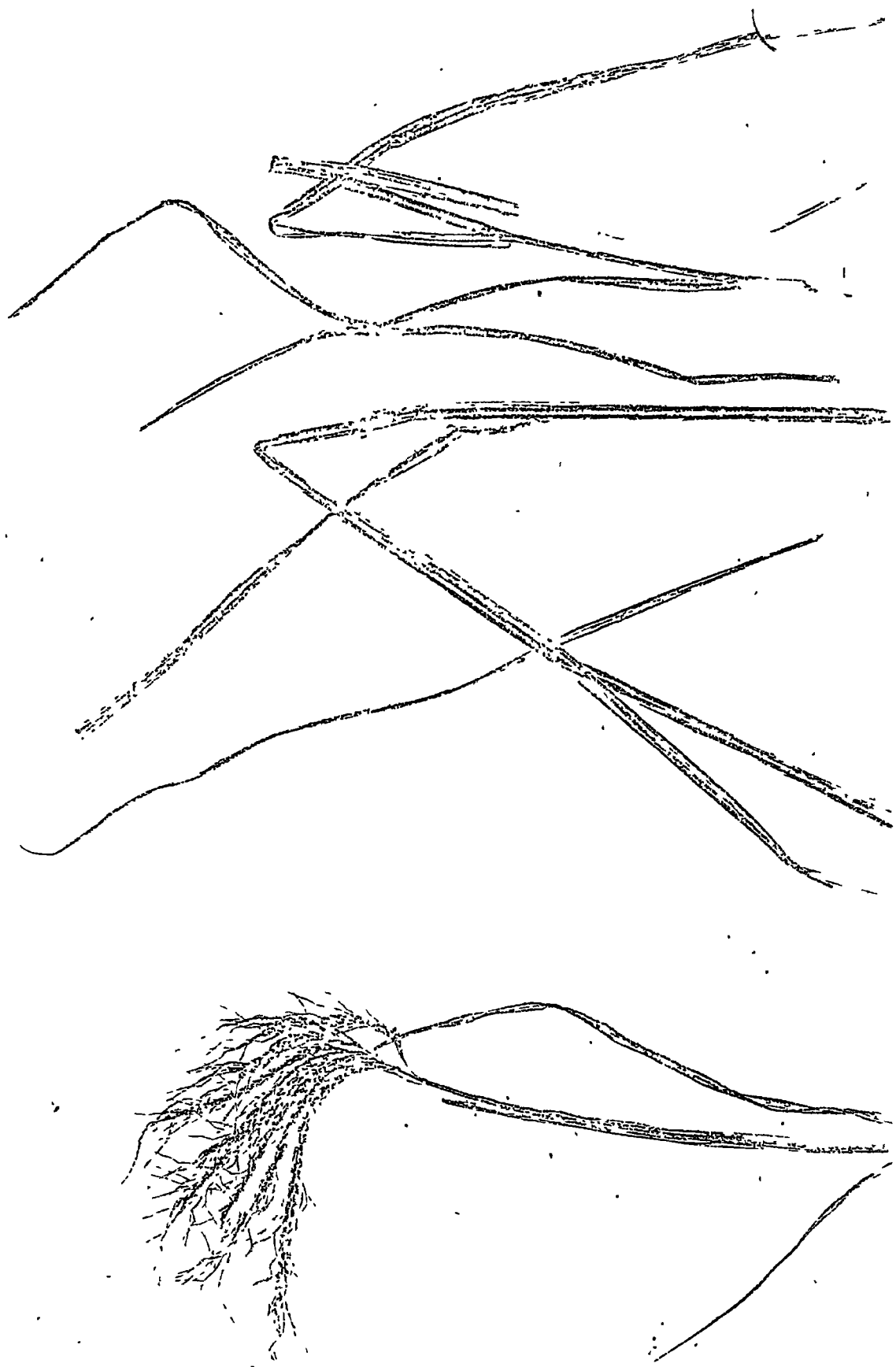


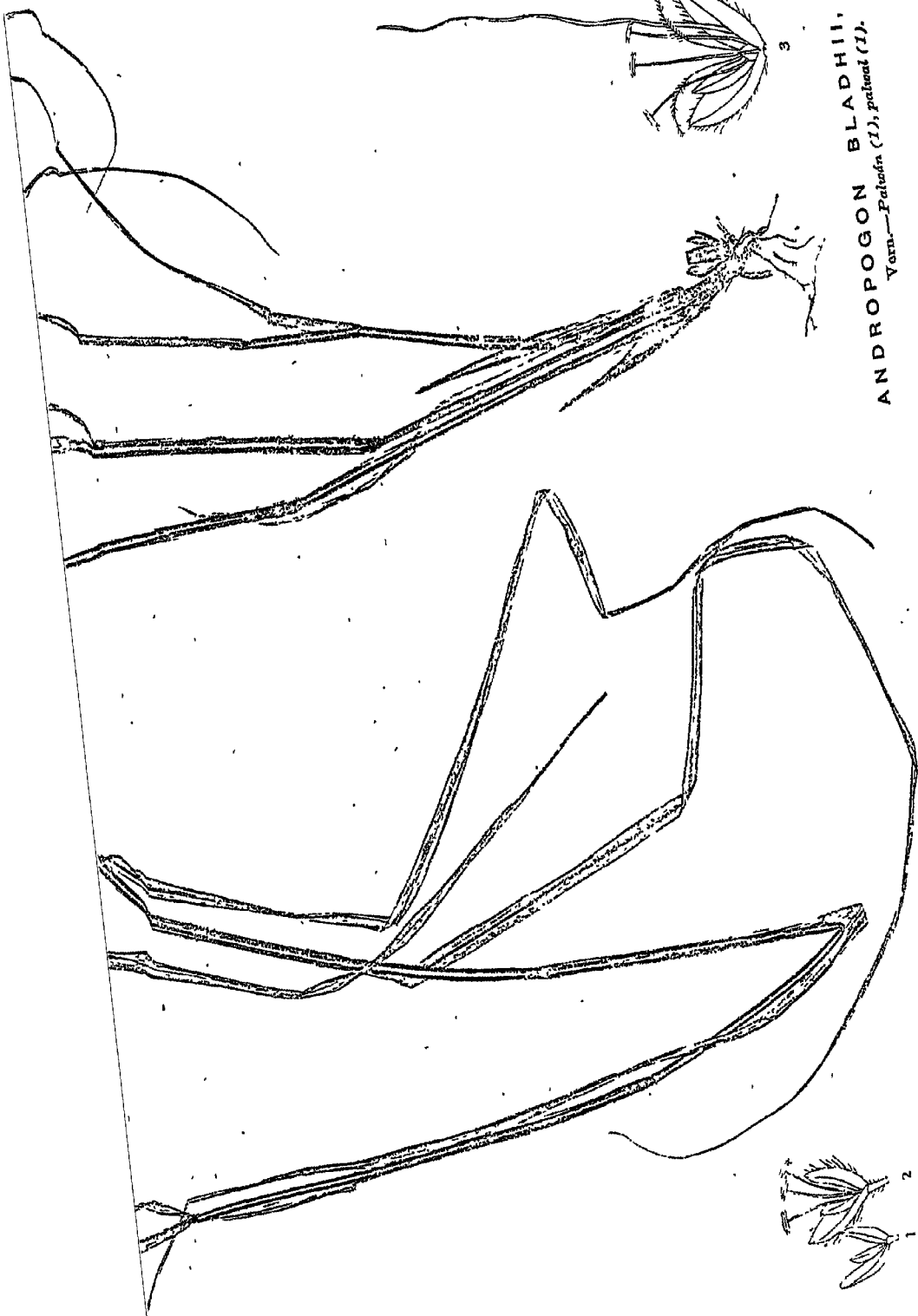
HEMARTHRIA COMPRESSA, R. Br.





HETEROPOGON CONTORTUS, R. and S.
Vern.—*Savila, lamb.*

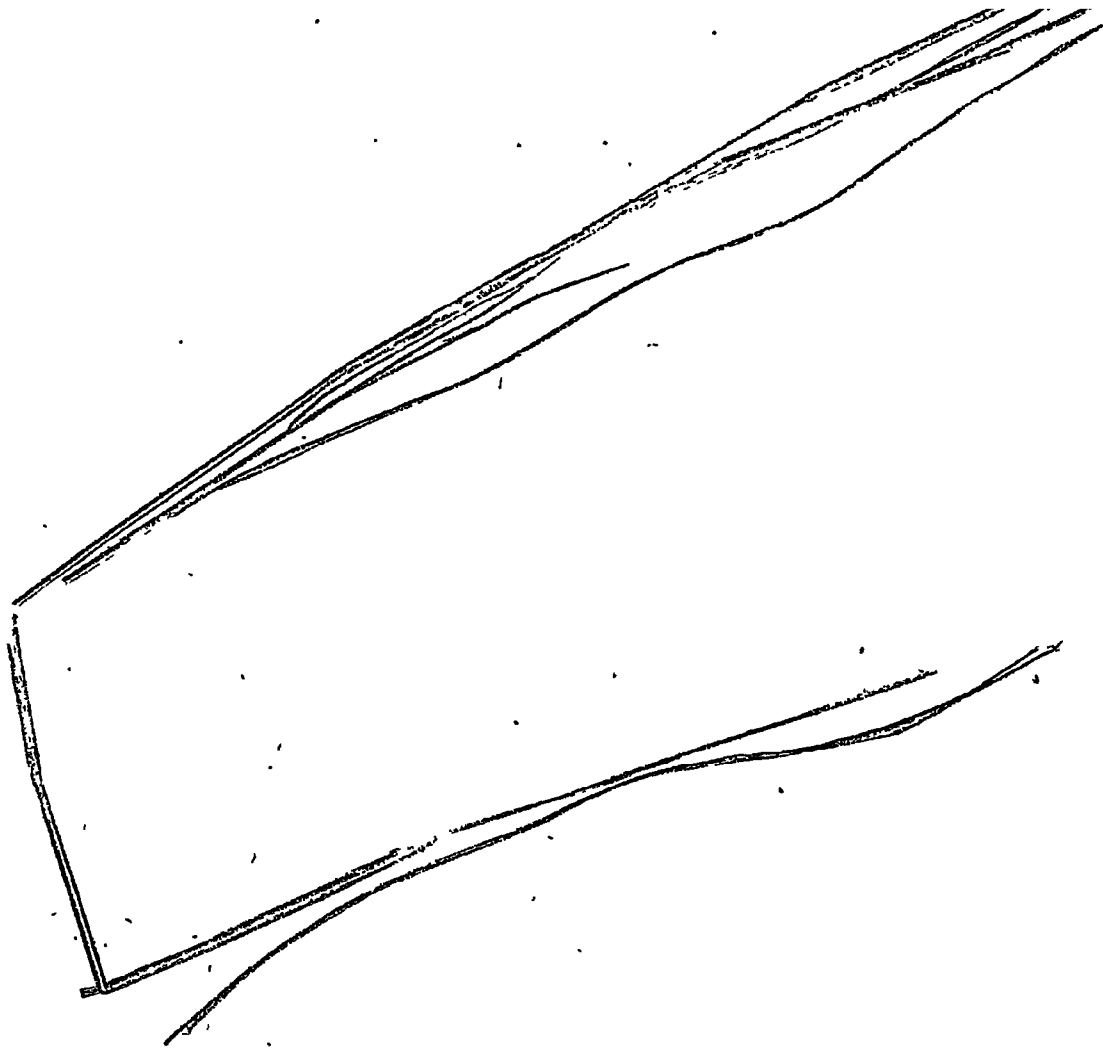


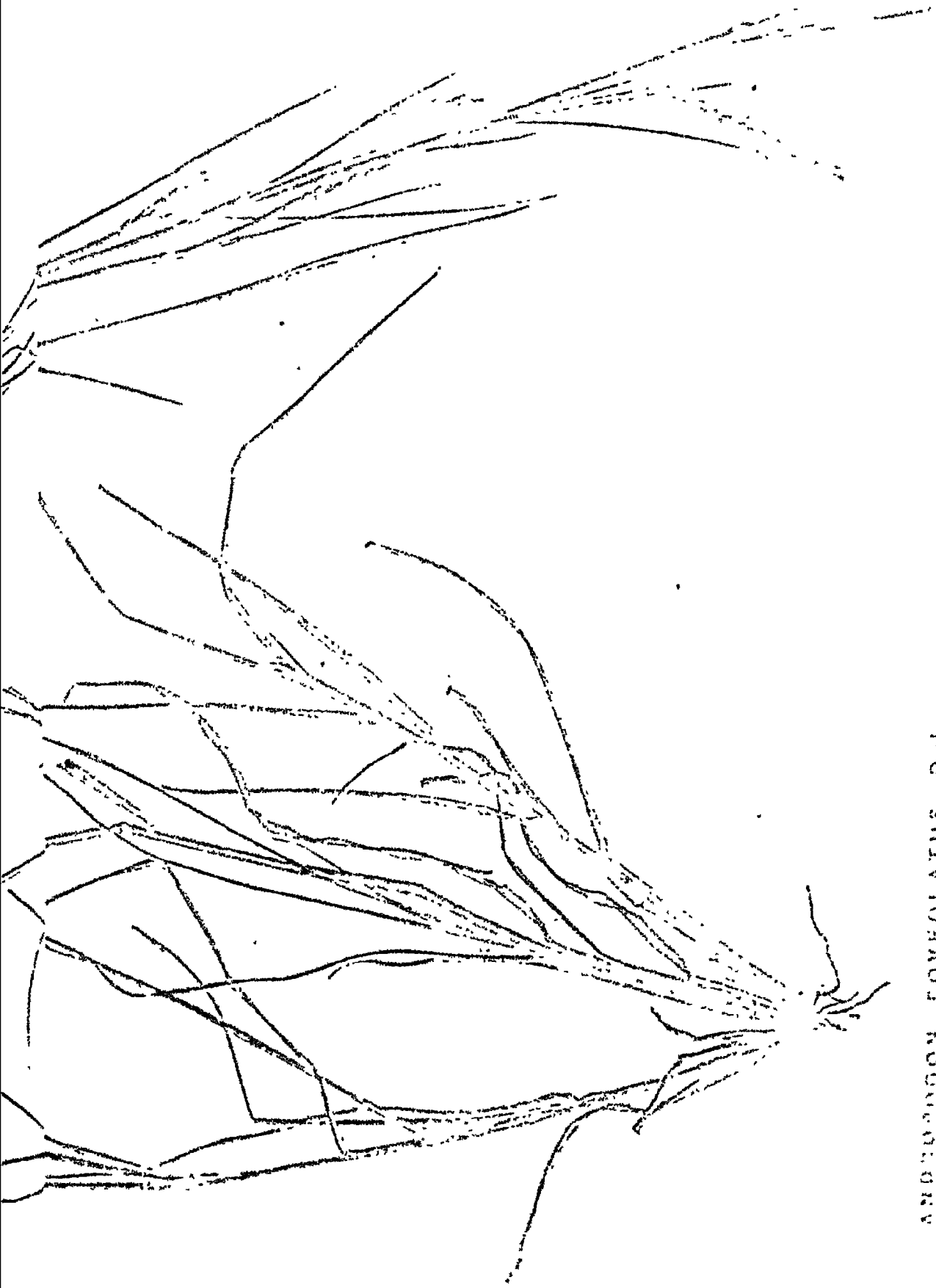


Retz.

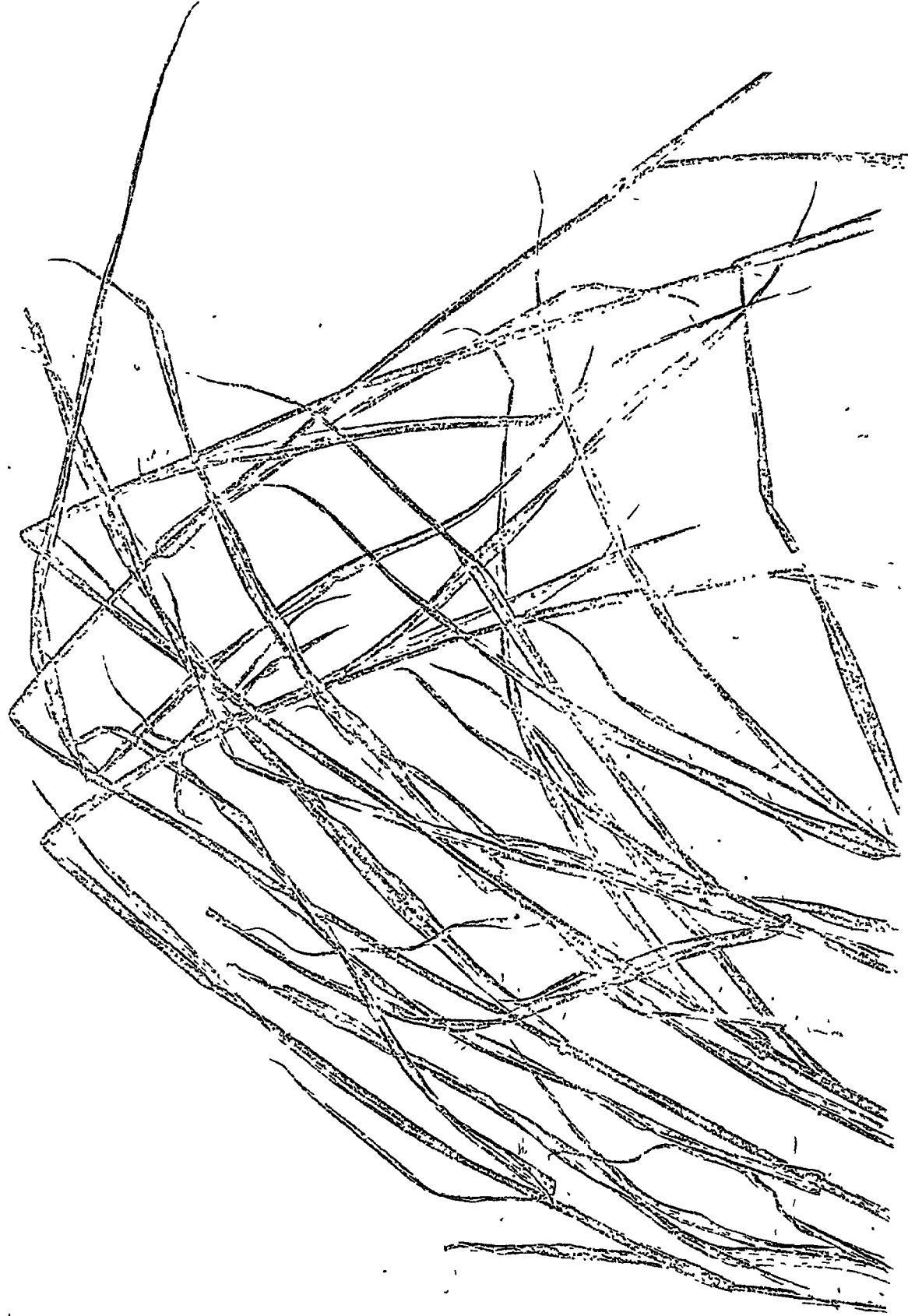
ANDROPOGON BLADHII, Retz.

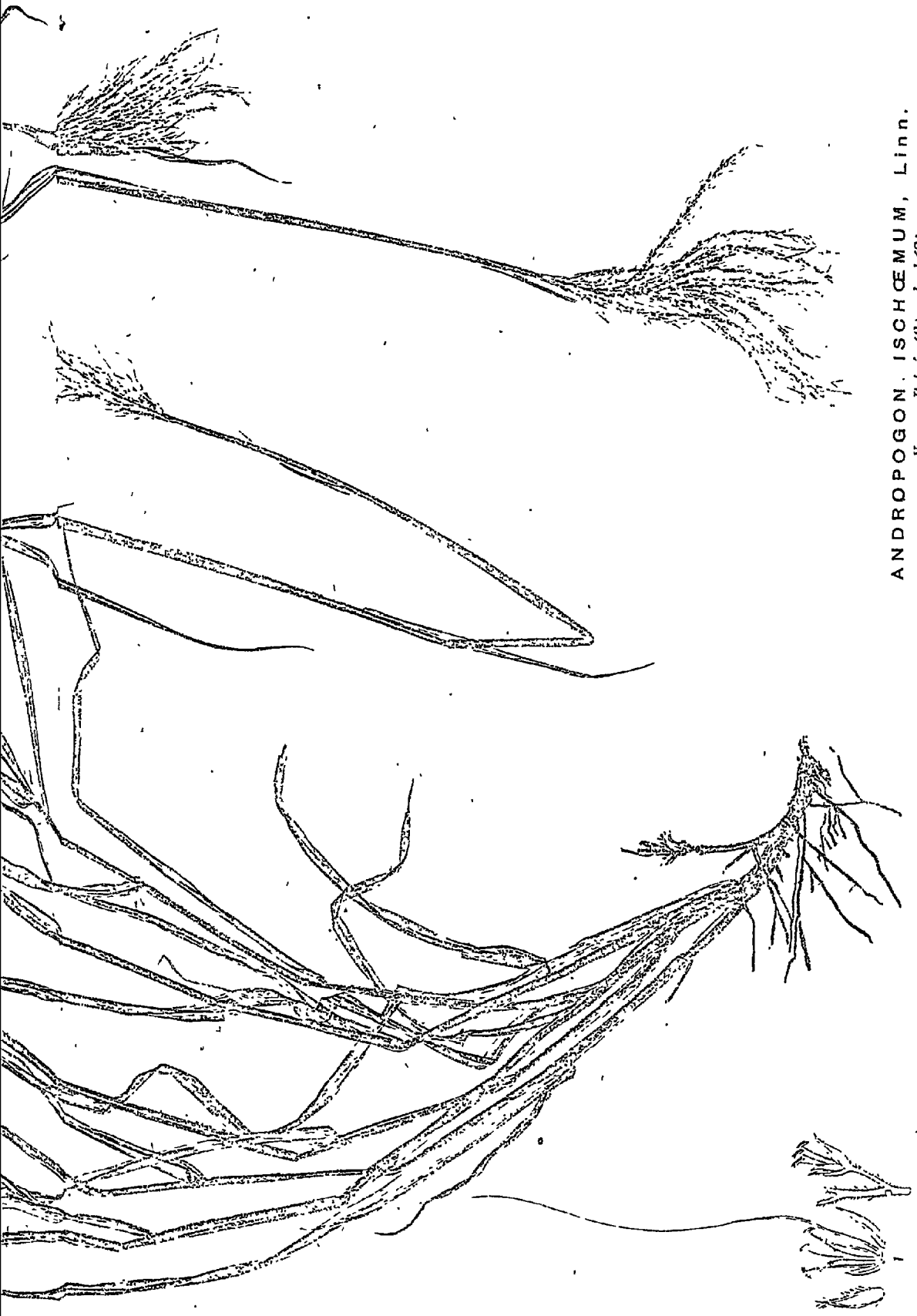
Vern.—Patada (1), patad (1).





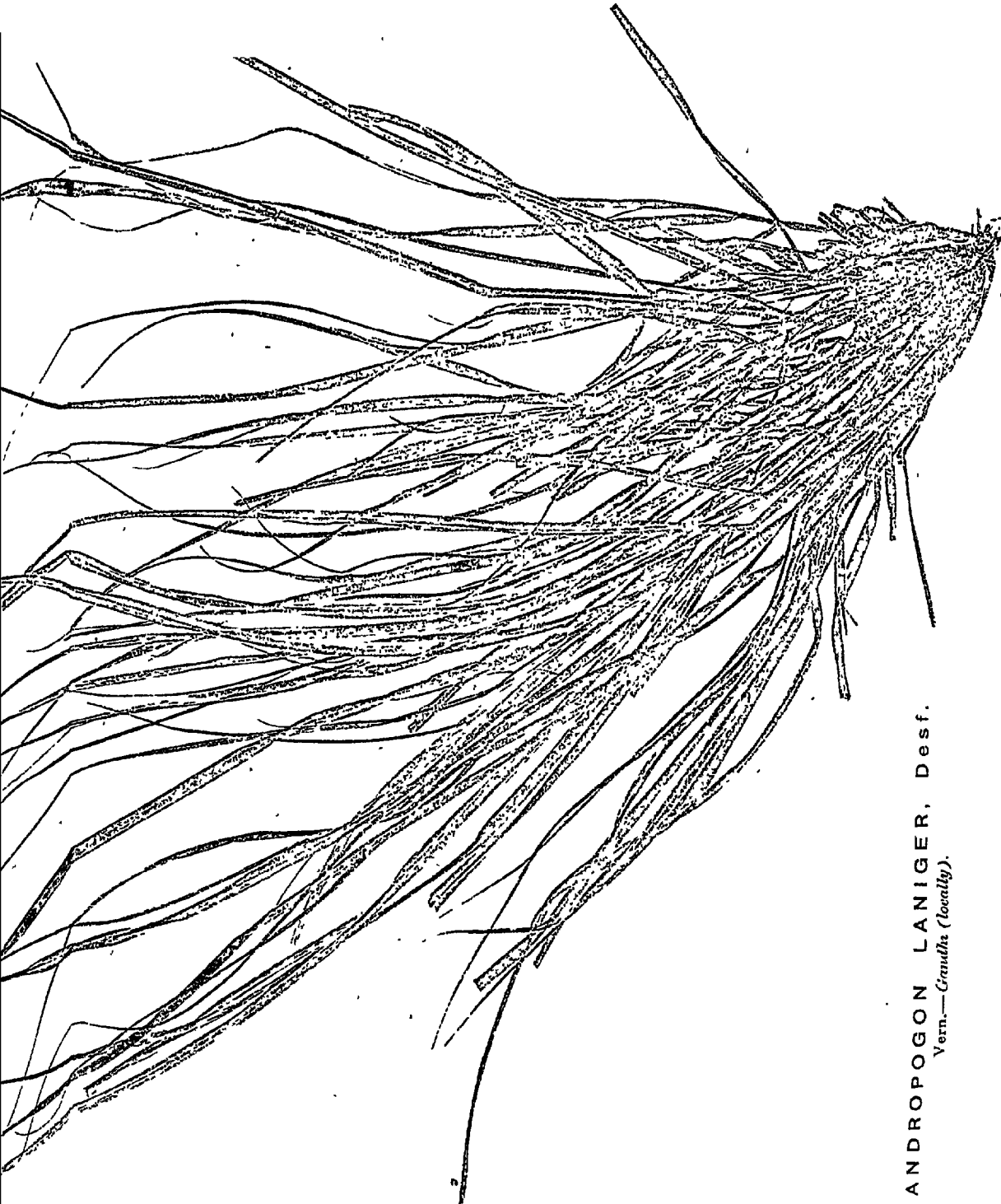
ANDRONGON FOVEOLATUS D. C.



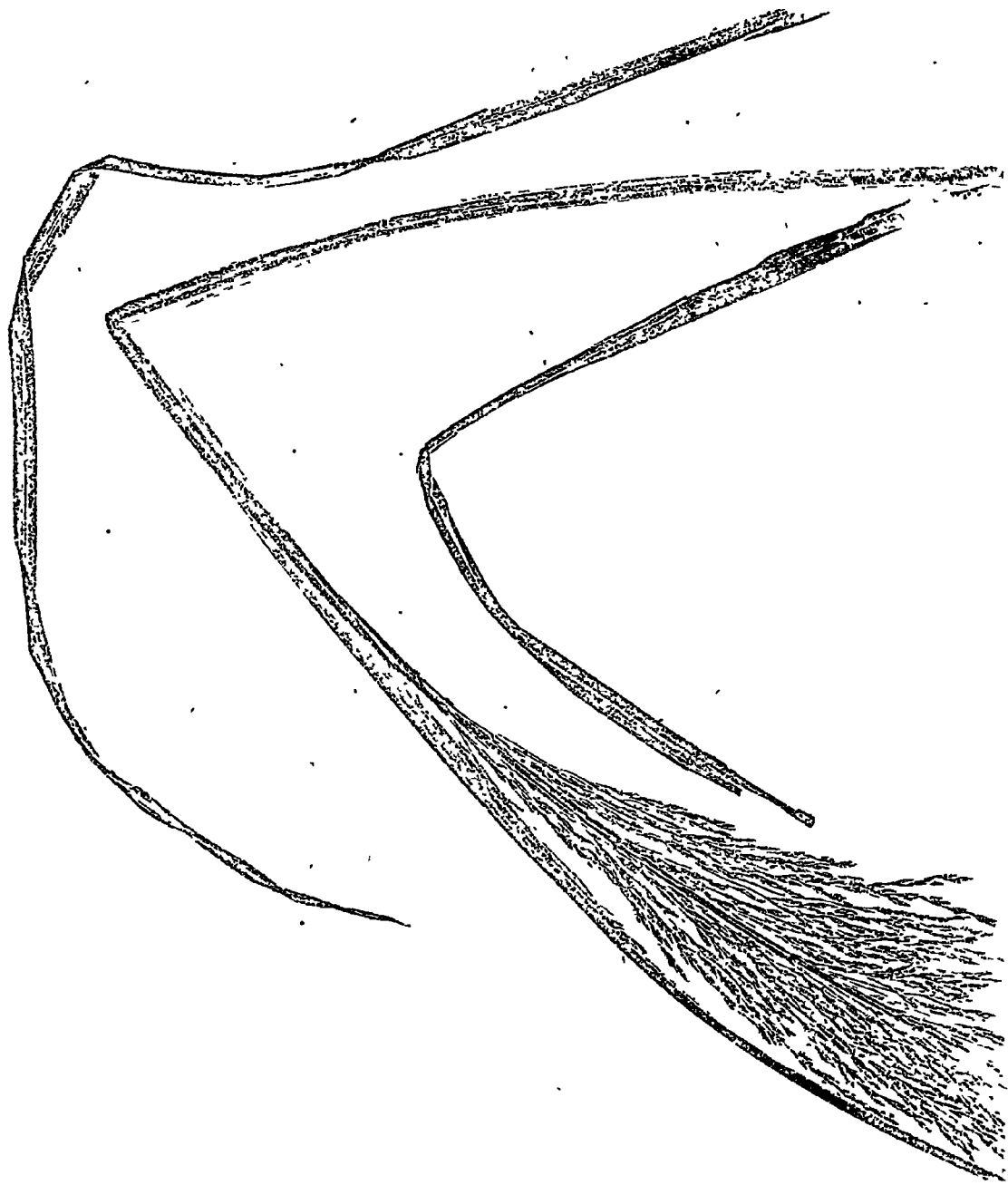


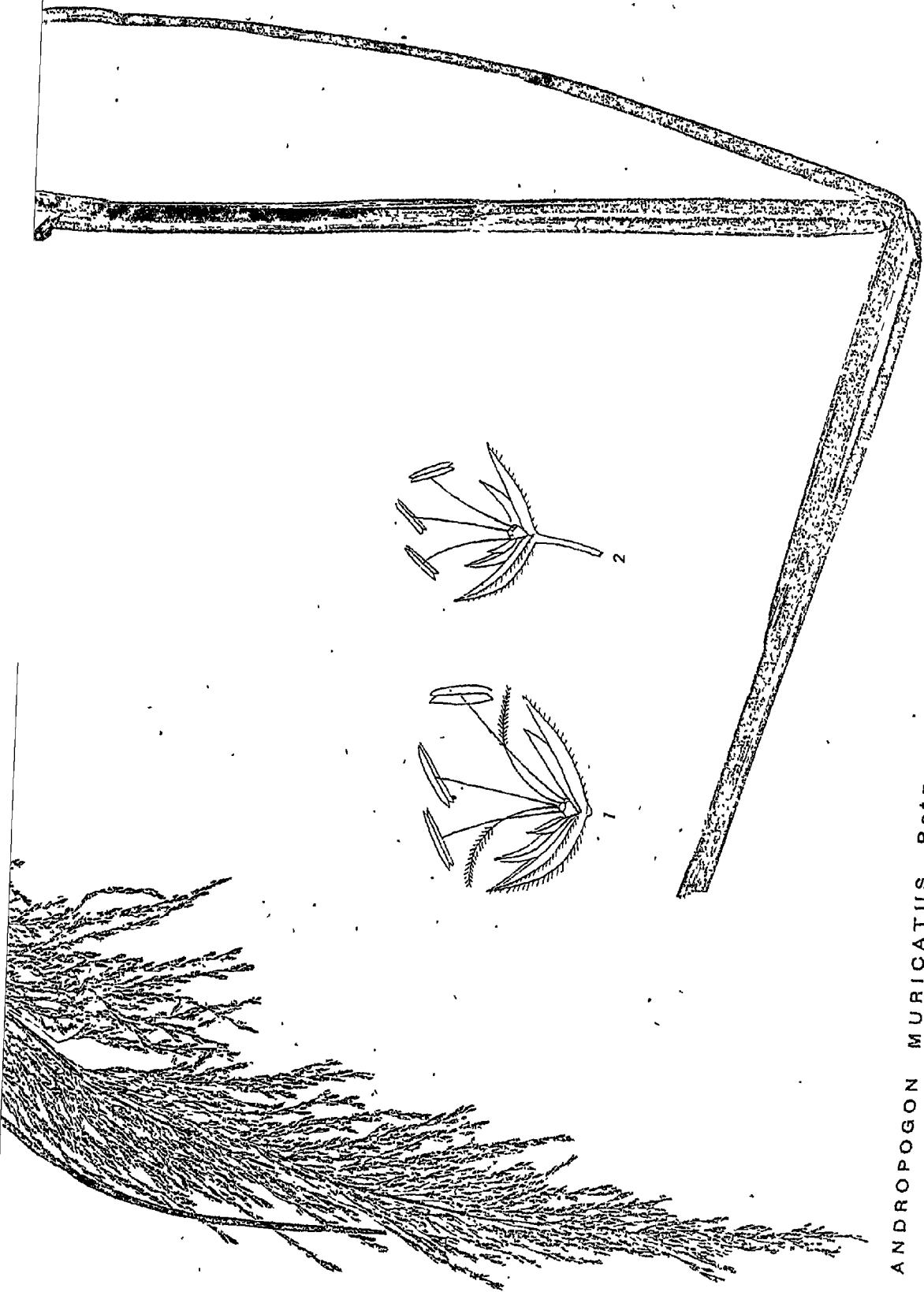
ANDROPOGON. ISCHÆMUM, Linn.
Vern.—*Patech* (2), *patent* (2).



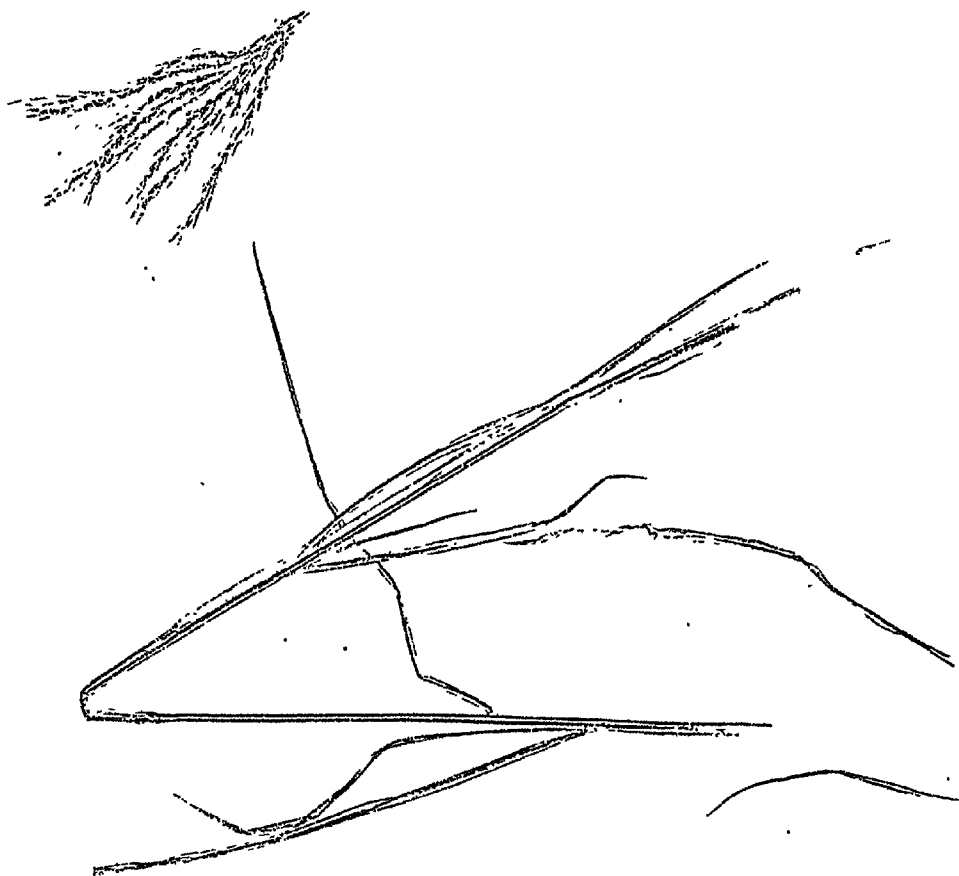


ANDROPOGON LANIGER, Desf.
Vern.—*Grudhi* (locally).

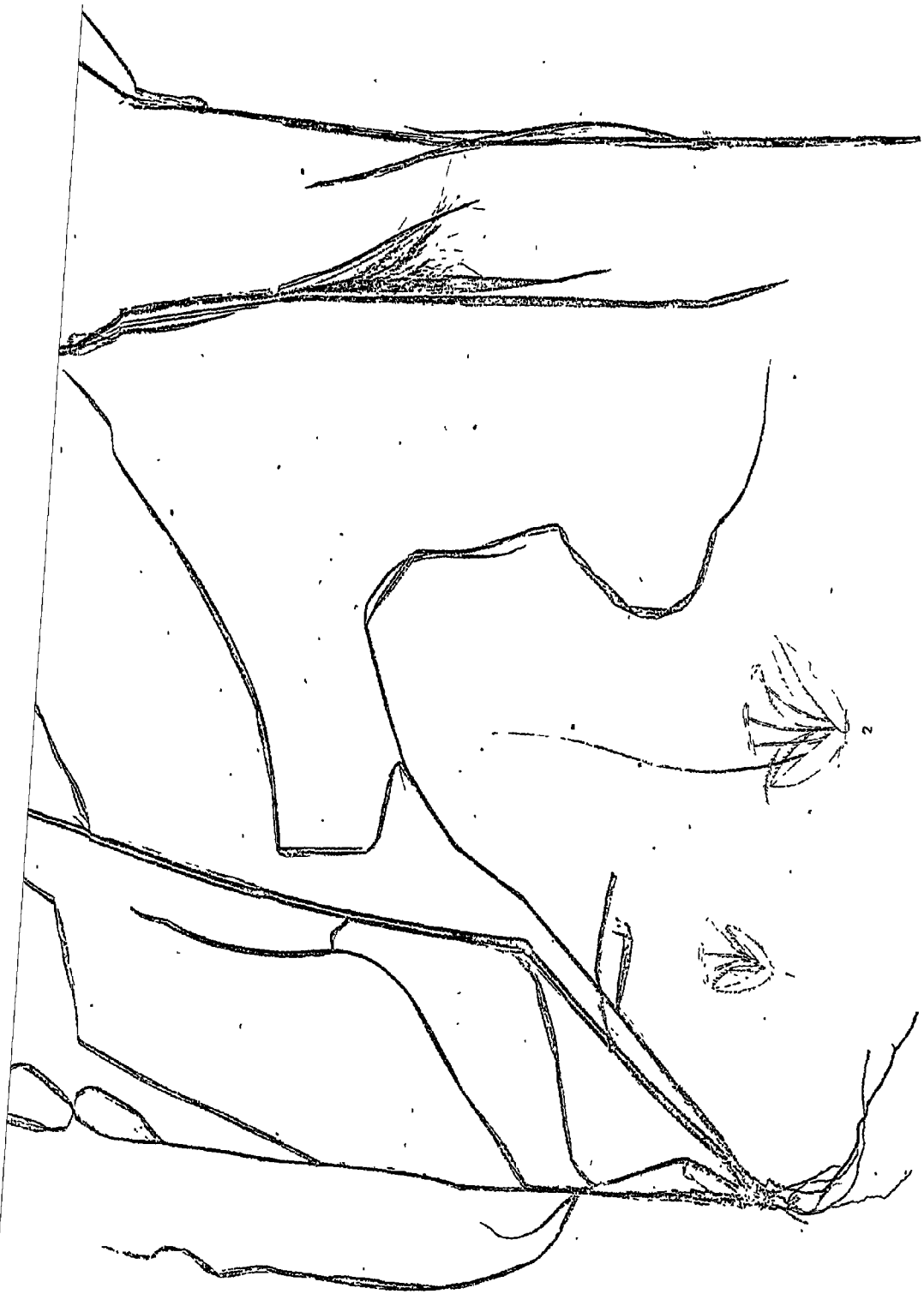




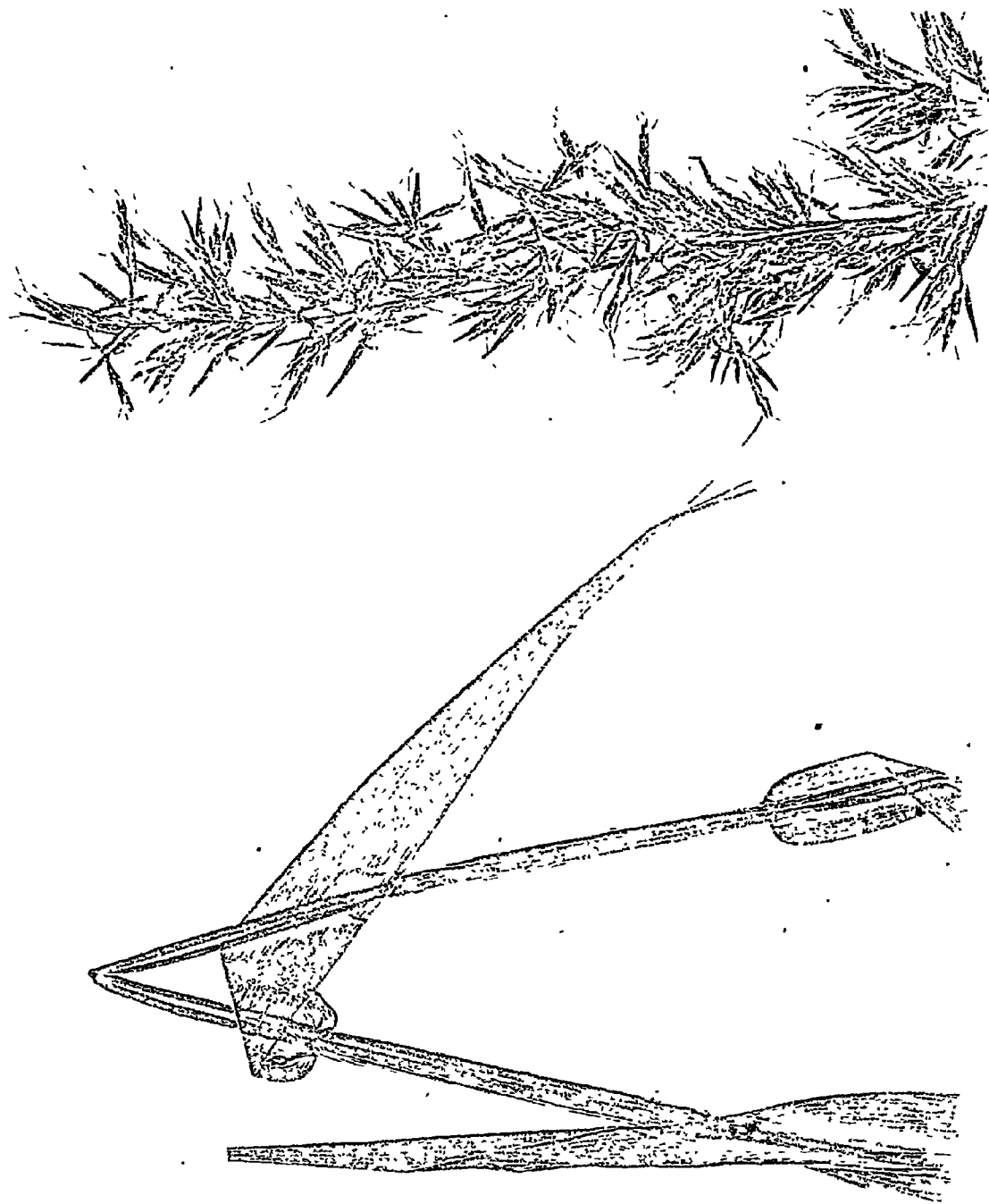
ANDROPOGON MURICATUS, Retz.
Vern.—Pamui, biran.

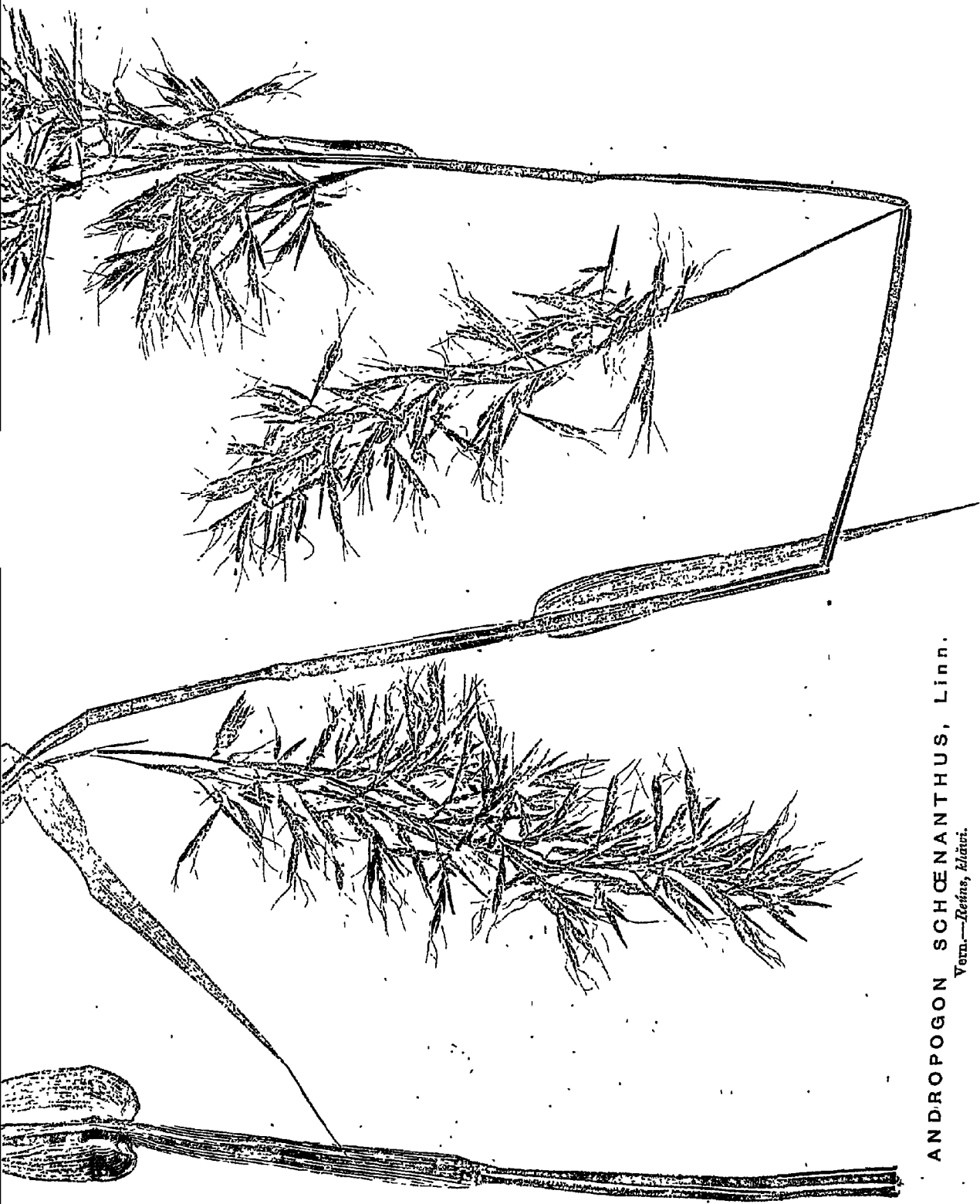


FODDER GRASSES OF NORTH-WEST INDIA.

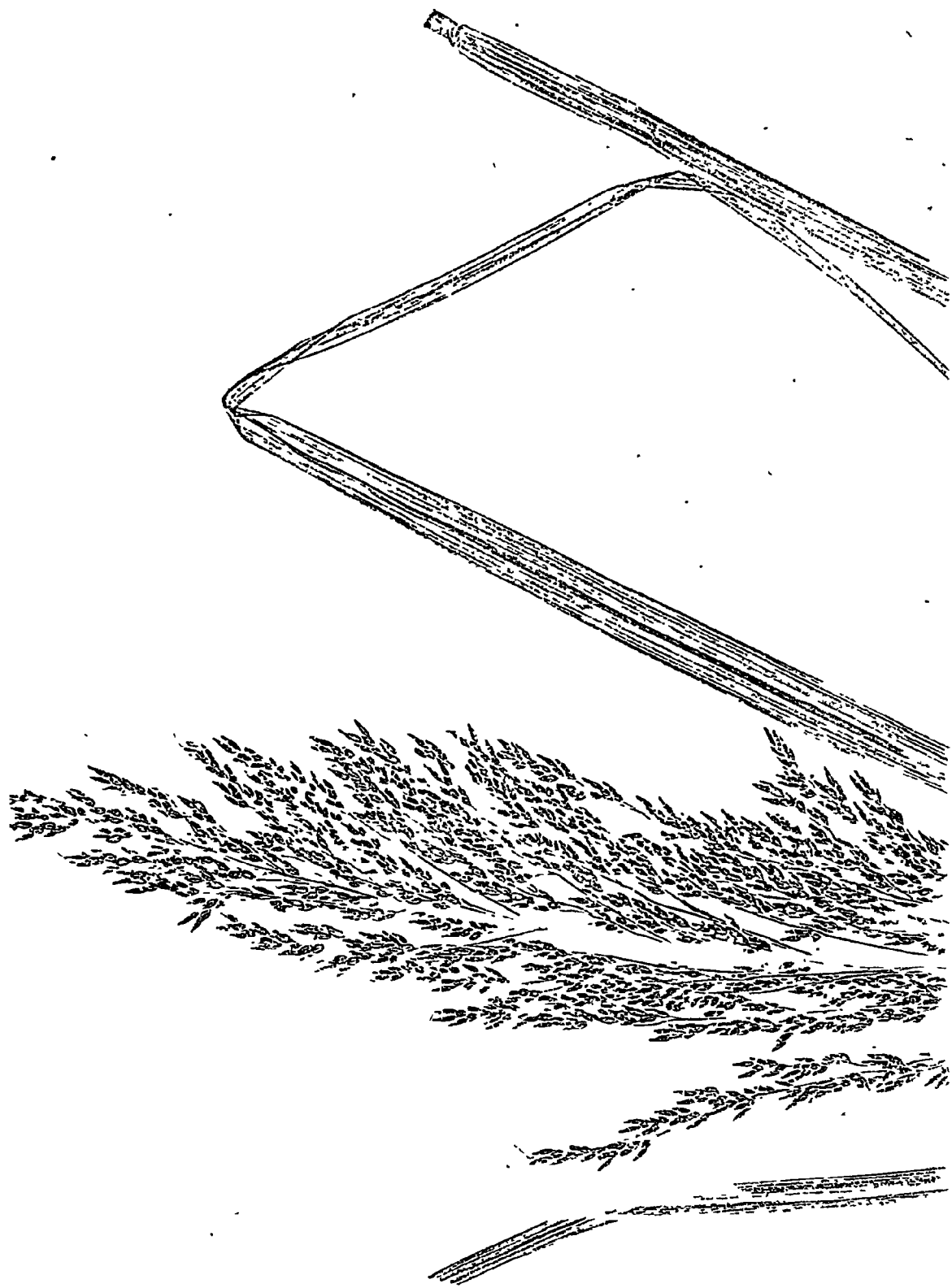


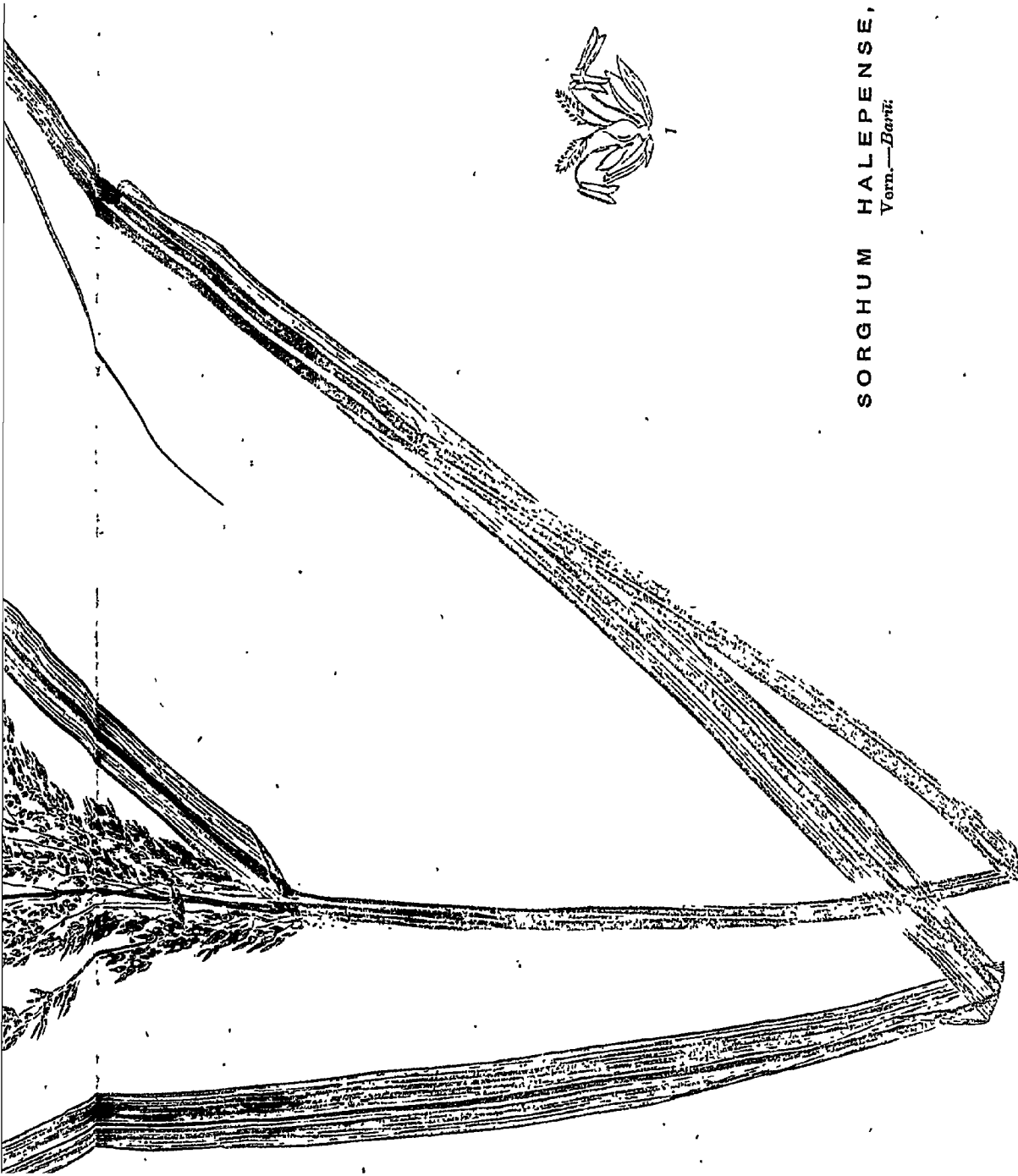
ANDROPOGON PERTUSUS, Willd.
Vern.—*Paltin* (3), *paltin* (3).



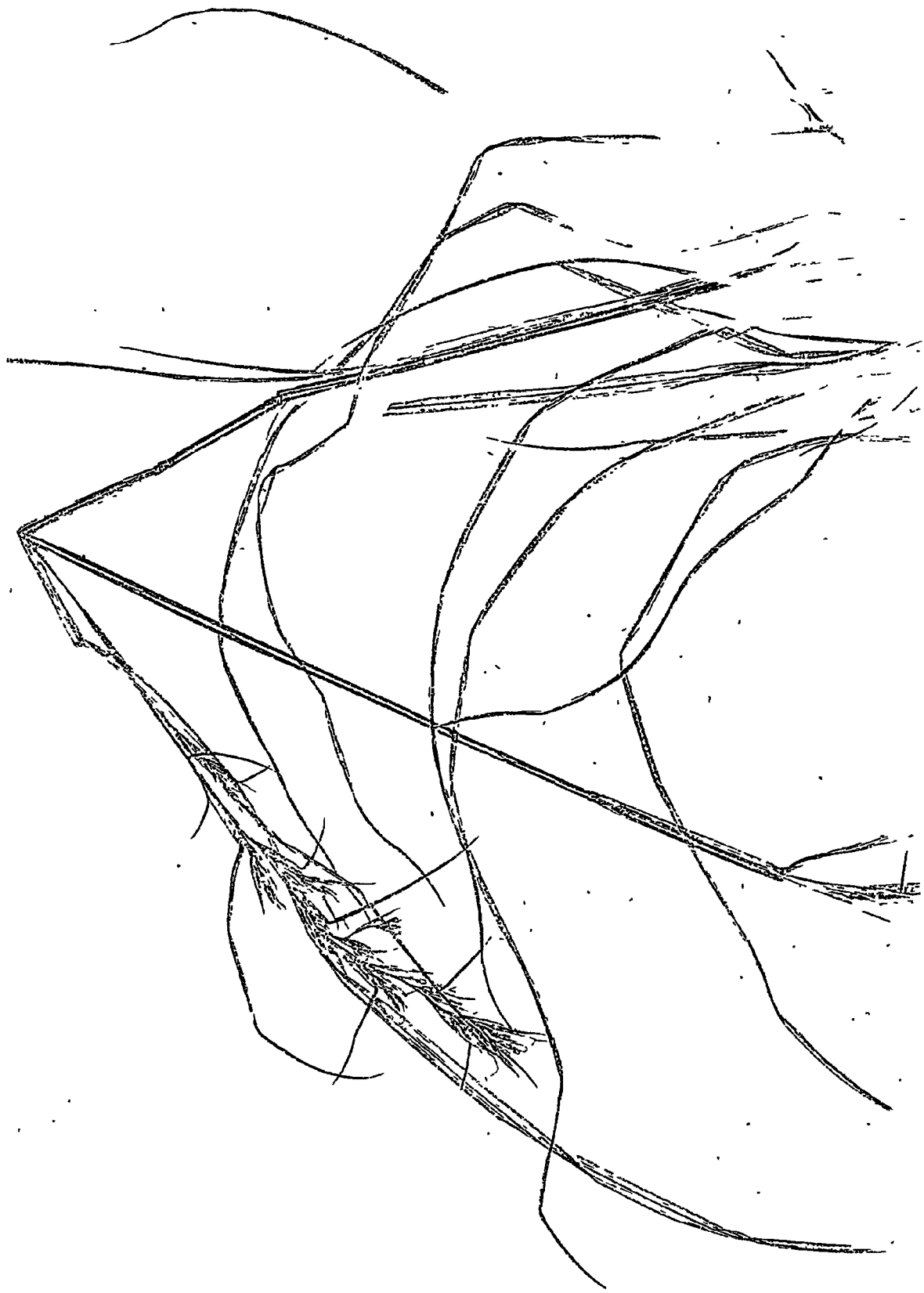


ANDROPOGON SCHŒNANTHUS, Linn.
Vern.—*Retús, klávi.*



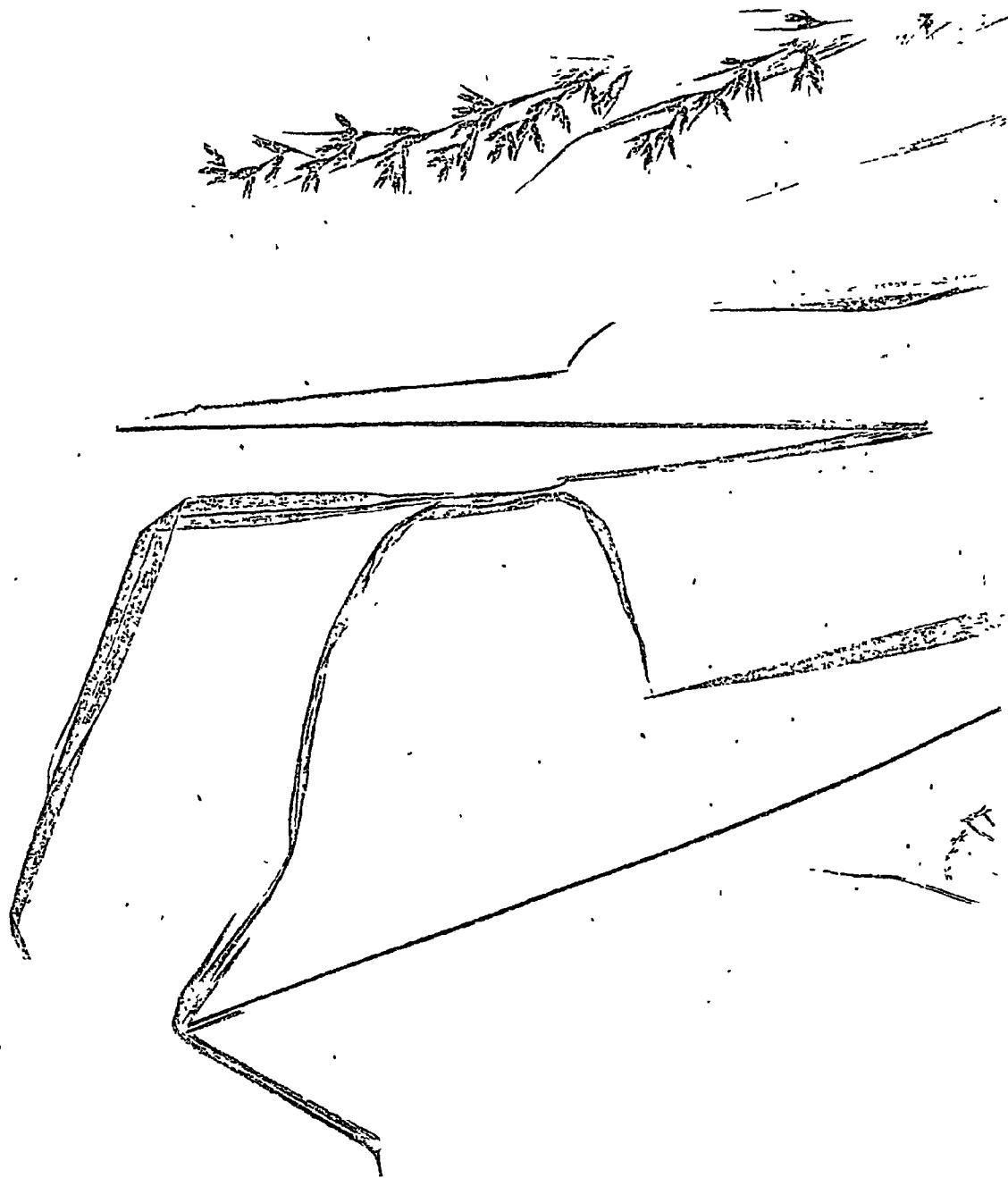


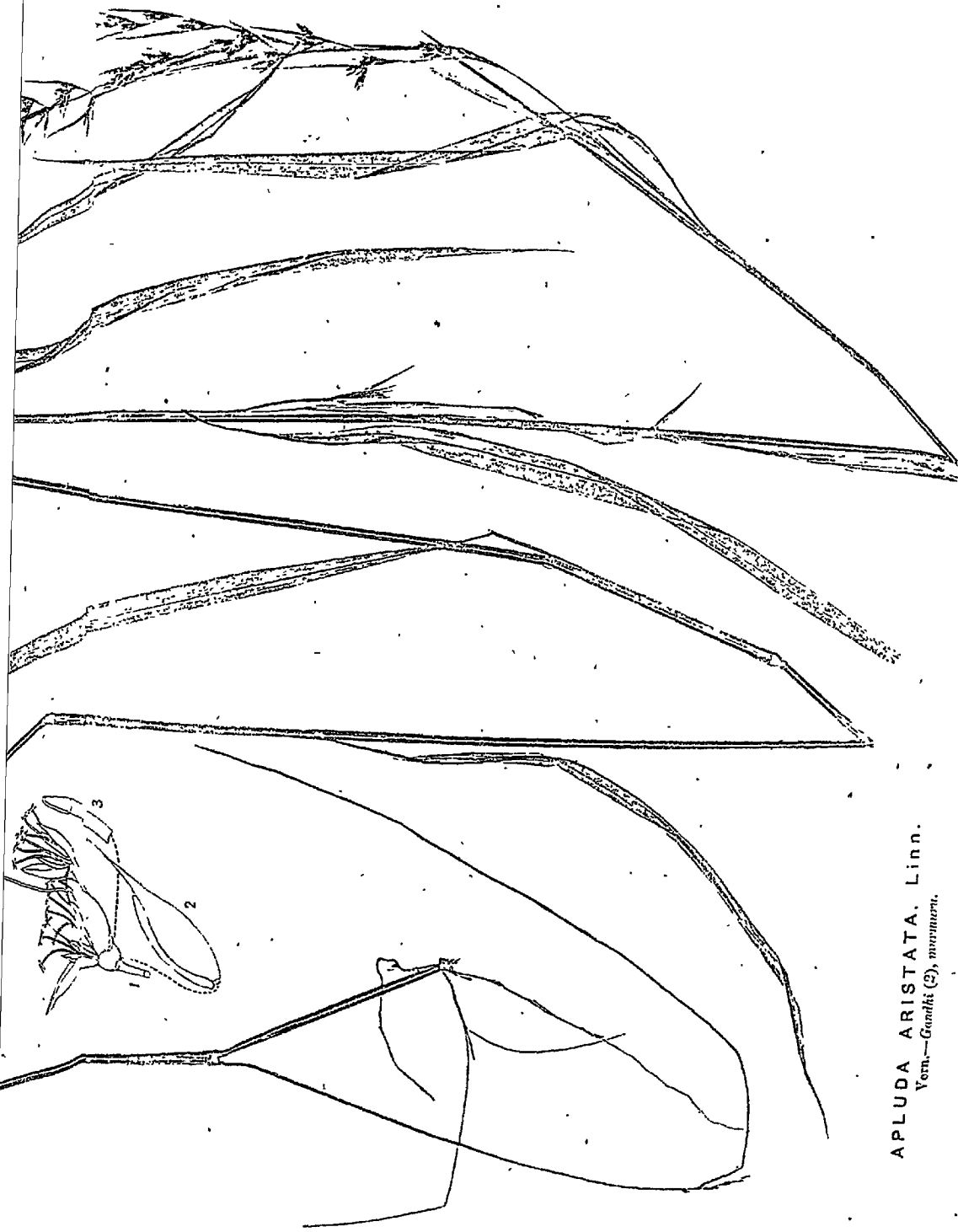
SORGHUM HALEPENSE, Pers.
Vern.—Barfi.



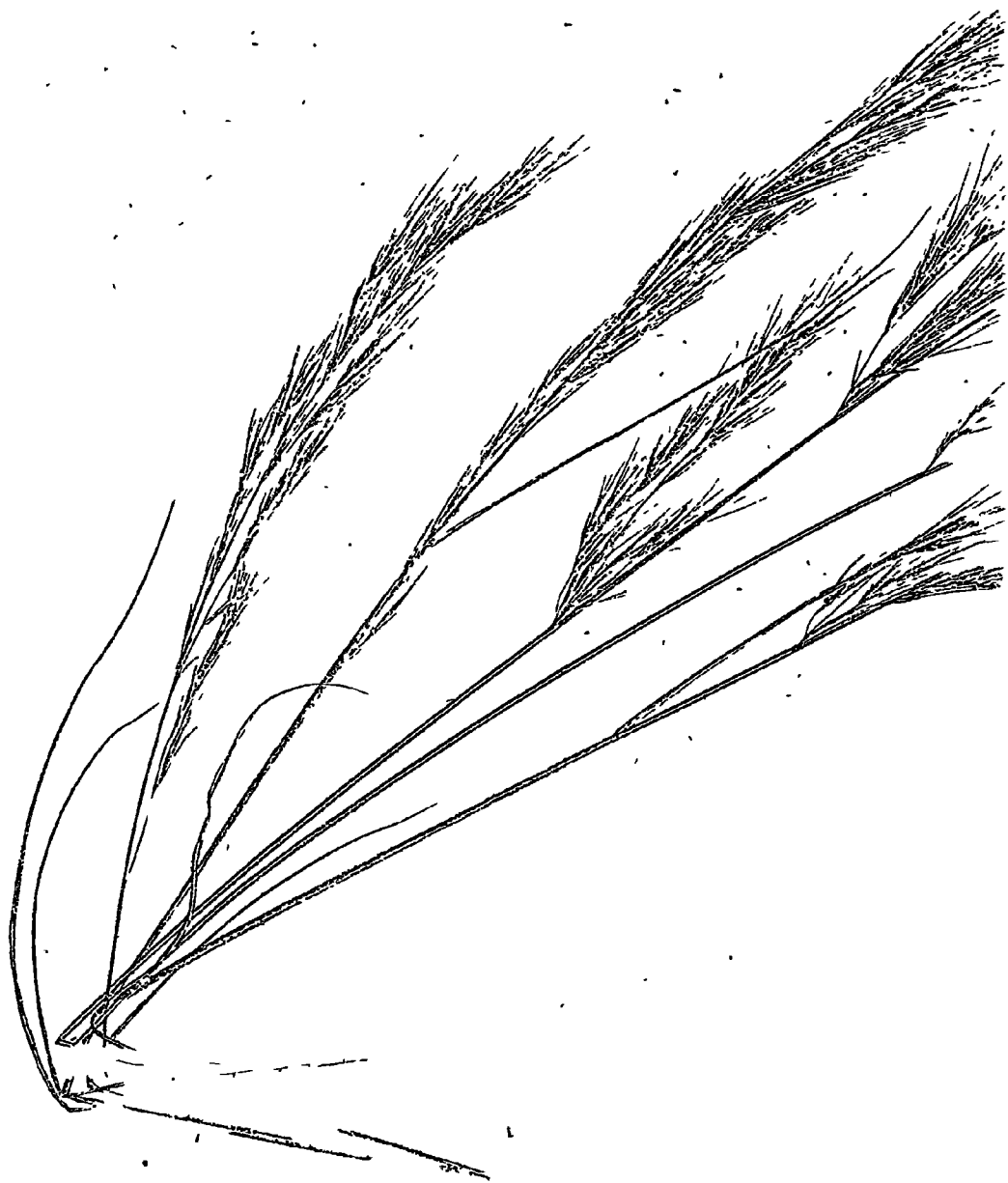


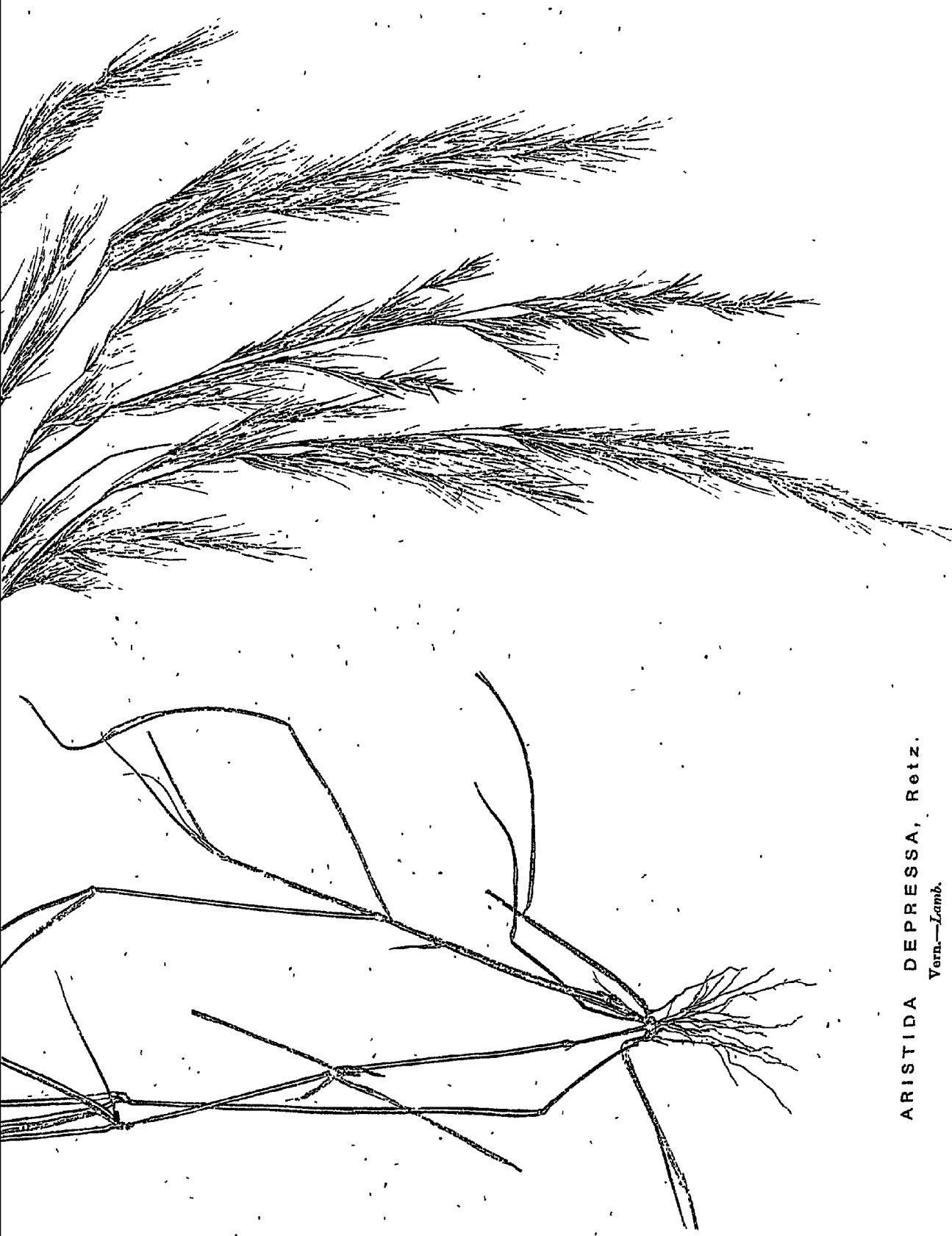
ANTHISTIRIA POLYSTACHYA, Roxb.
Vern.—*Gandhi (U)*.





APLUDA ARISTATA. Linn.
Vern.—*Gandki* (2), *murmur*.

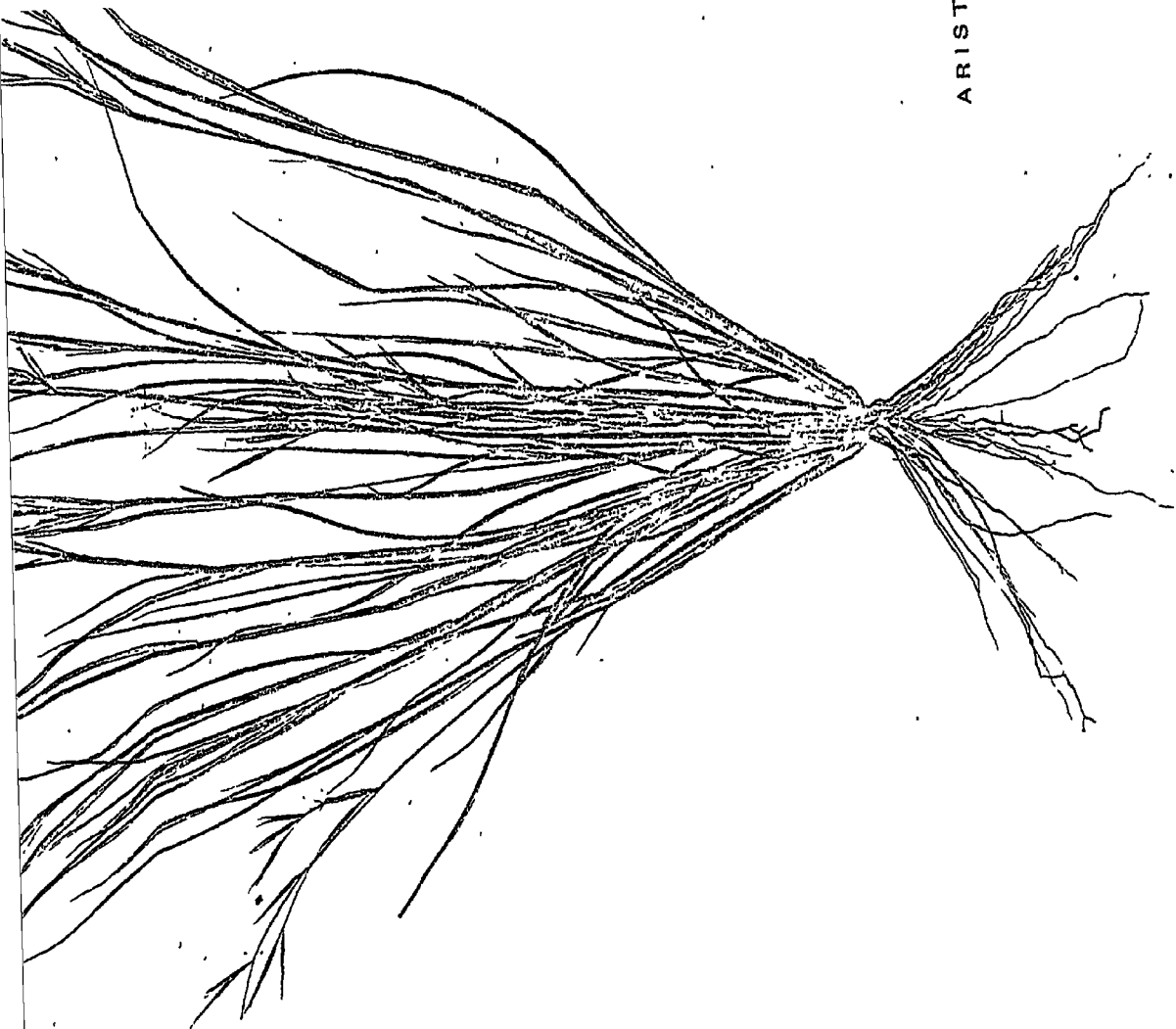




ARISTIDA DEPRESSA, Retz.
Vern.—Lamb.

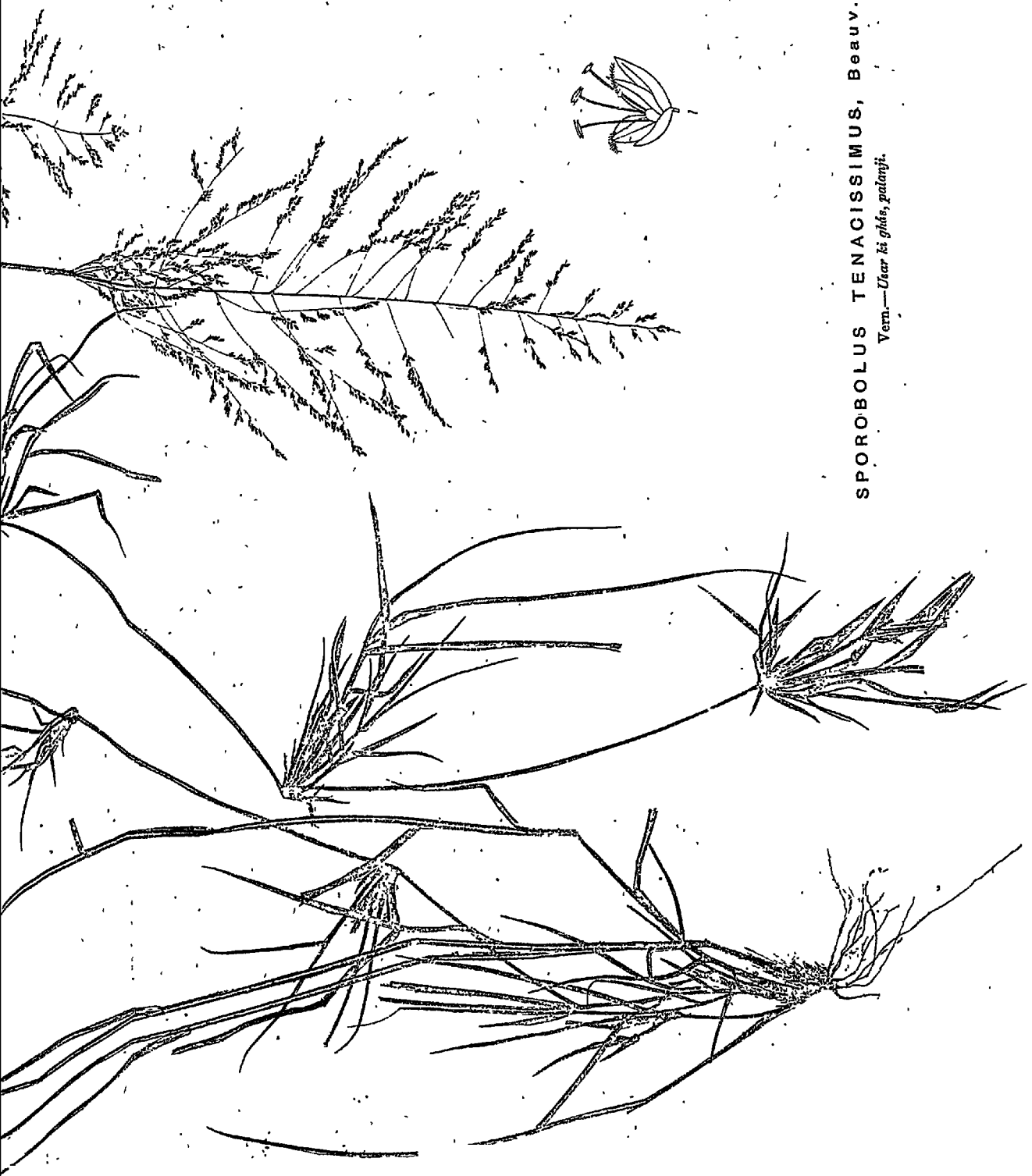


ARISTIDA MURINA, Cav.
Vern. — *Lamp.*



Painted from Nature by T. J. D. B. A. Thomson College Press, Rochester.

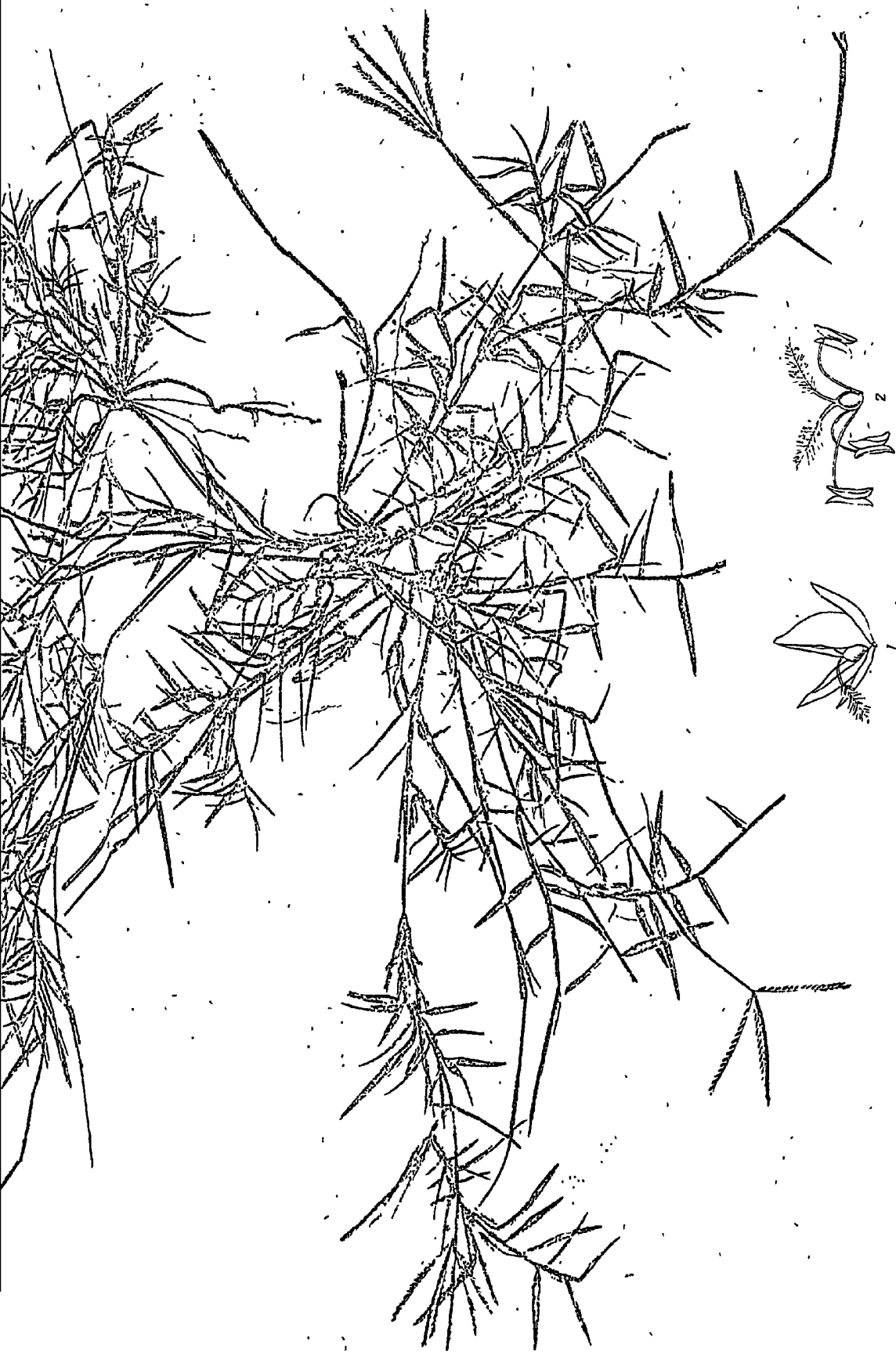




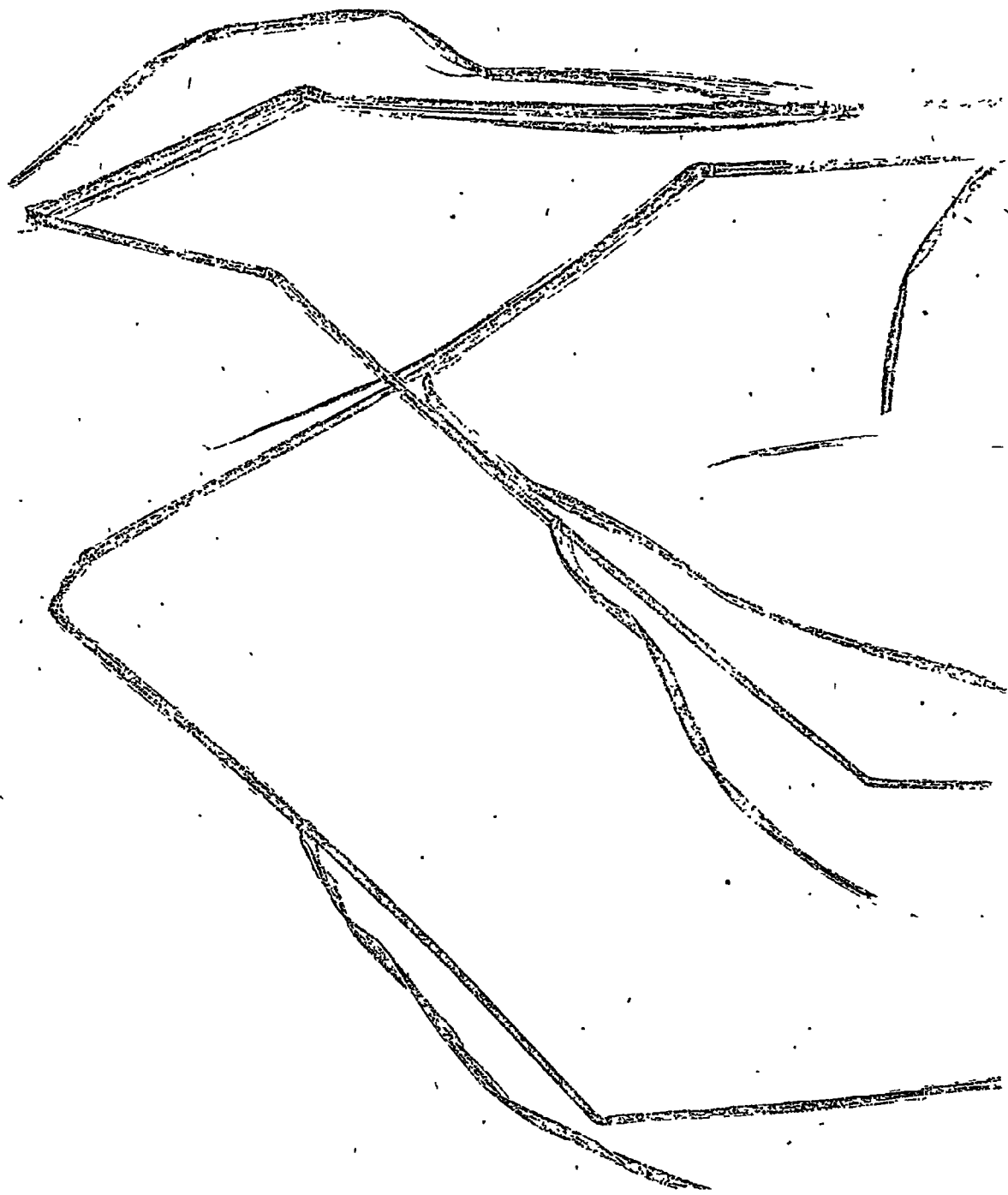
SPOROBOLUS TENACISSIMUS, Beauv.

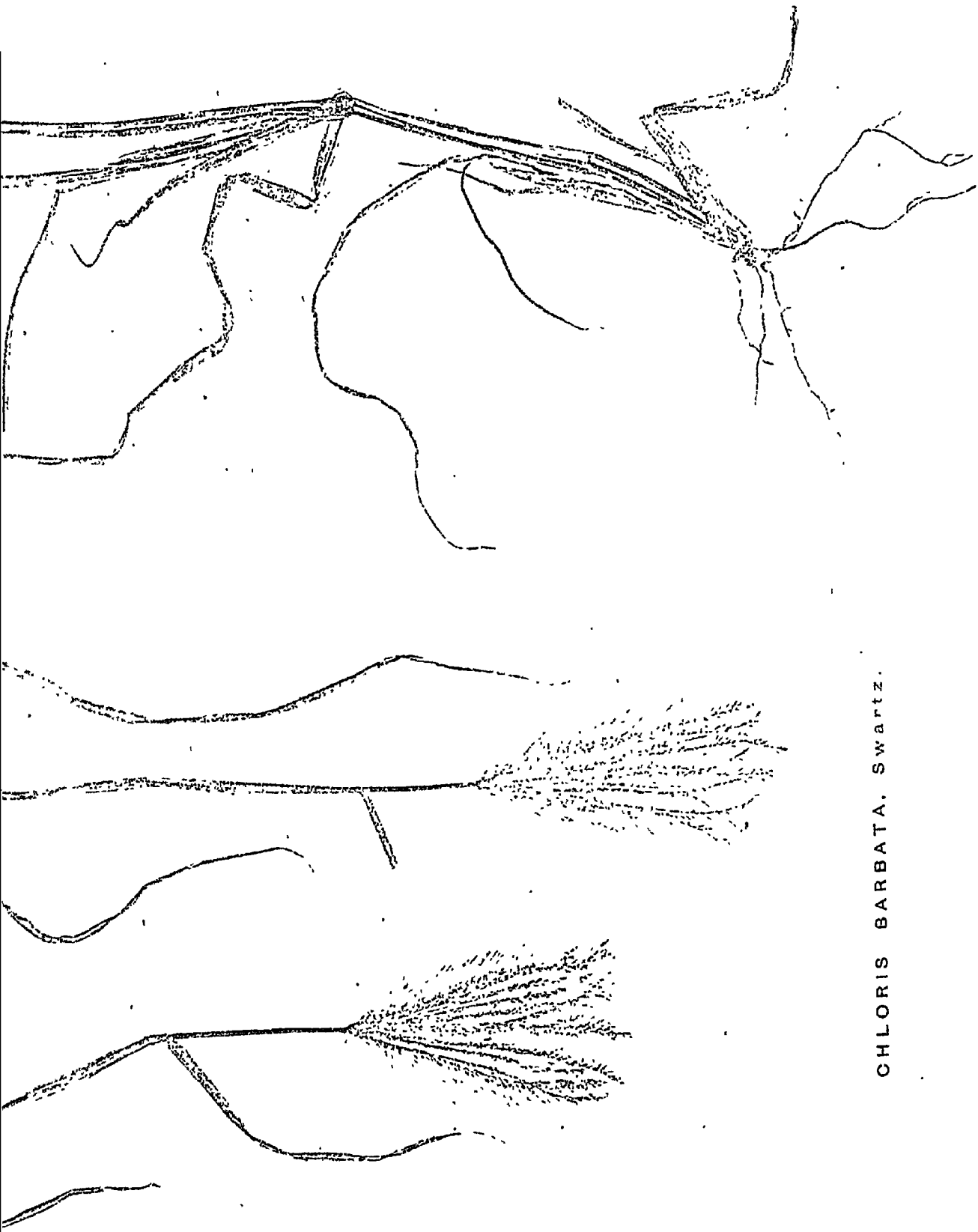
Vern.—*Ucar ká glde, palanji.*



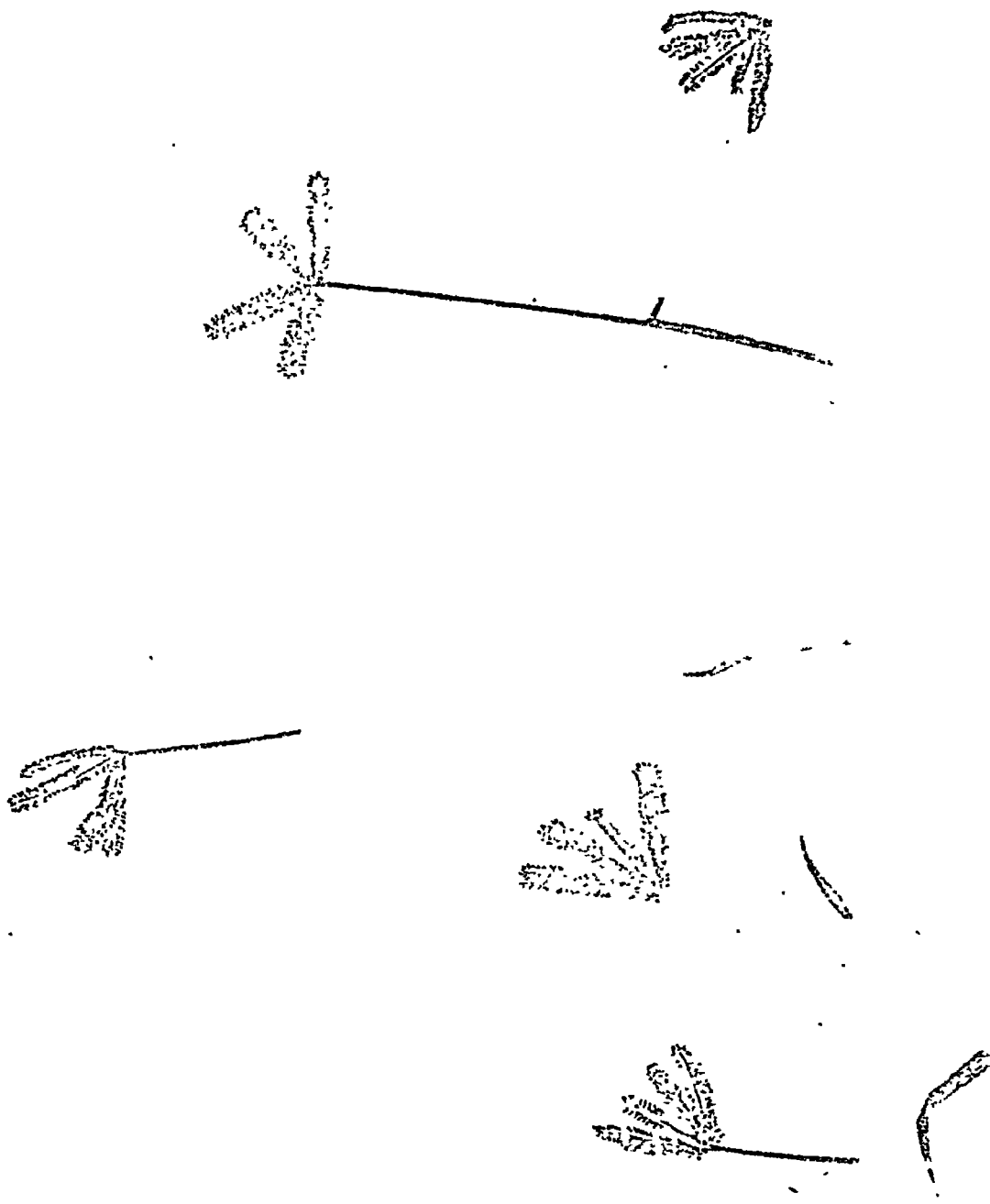


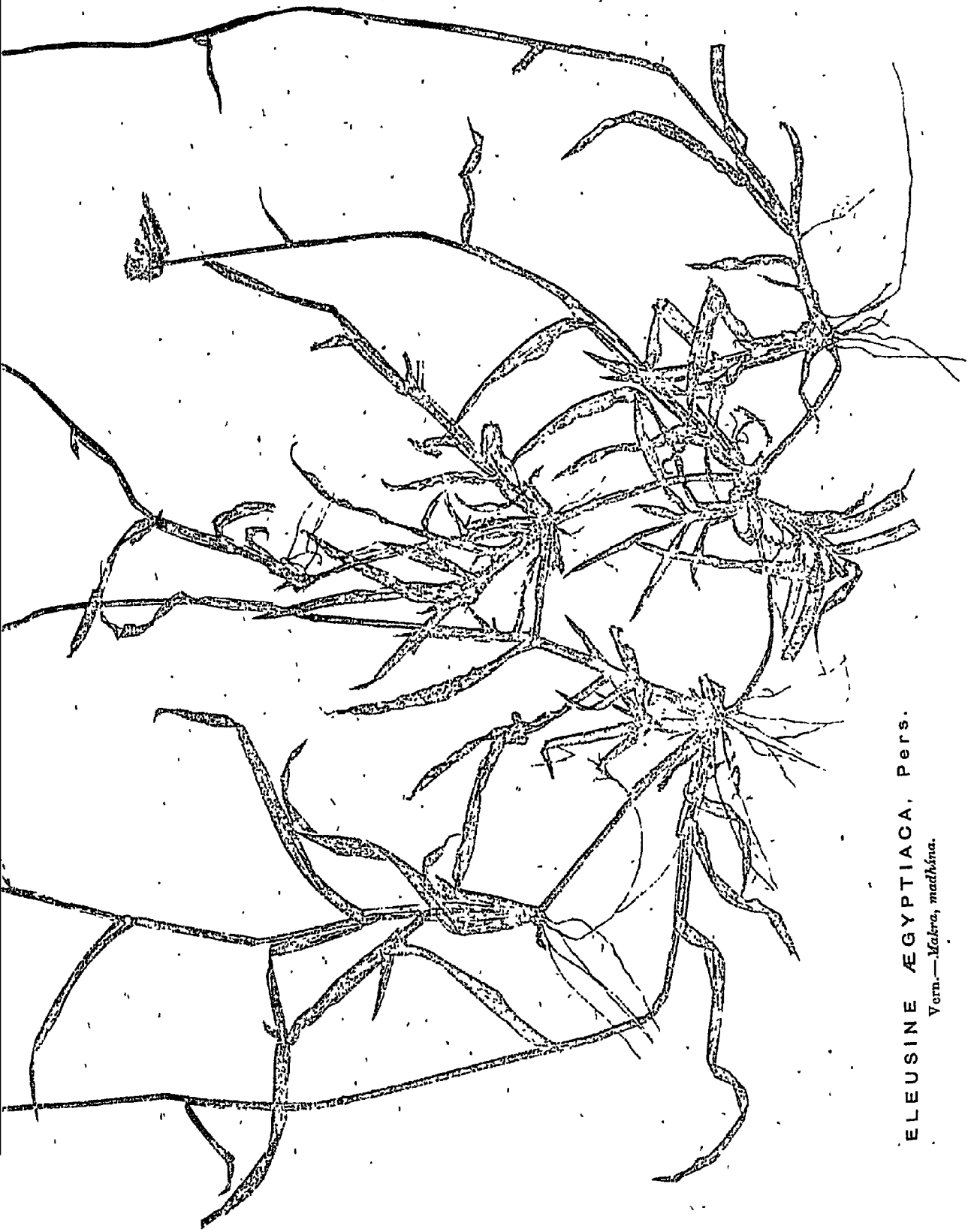
CYNODON DACTYLON, Pers.
Vern.—*Dub, khabbal, talia.*



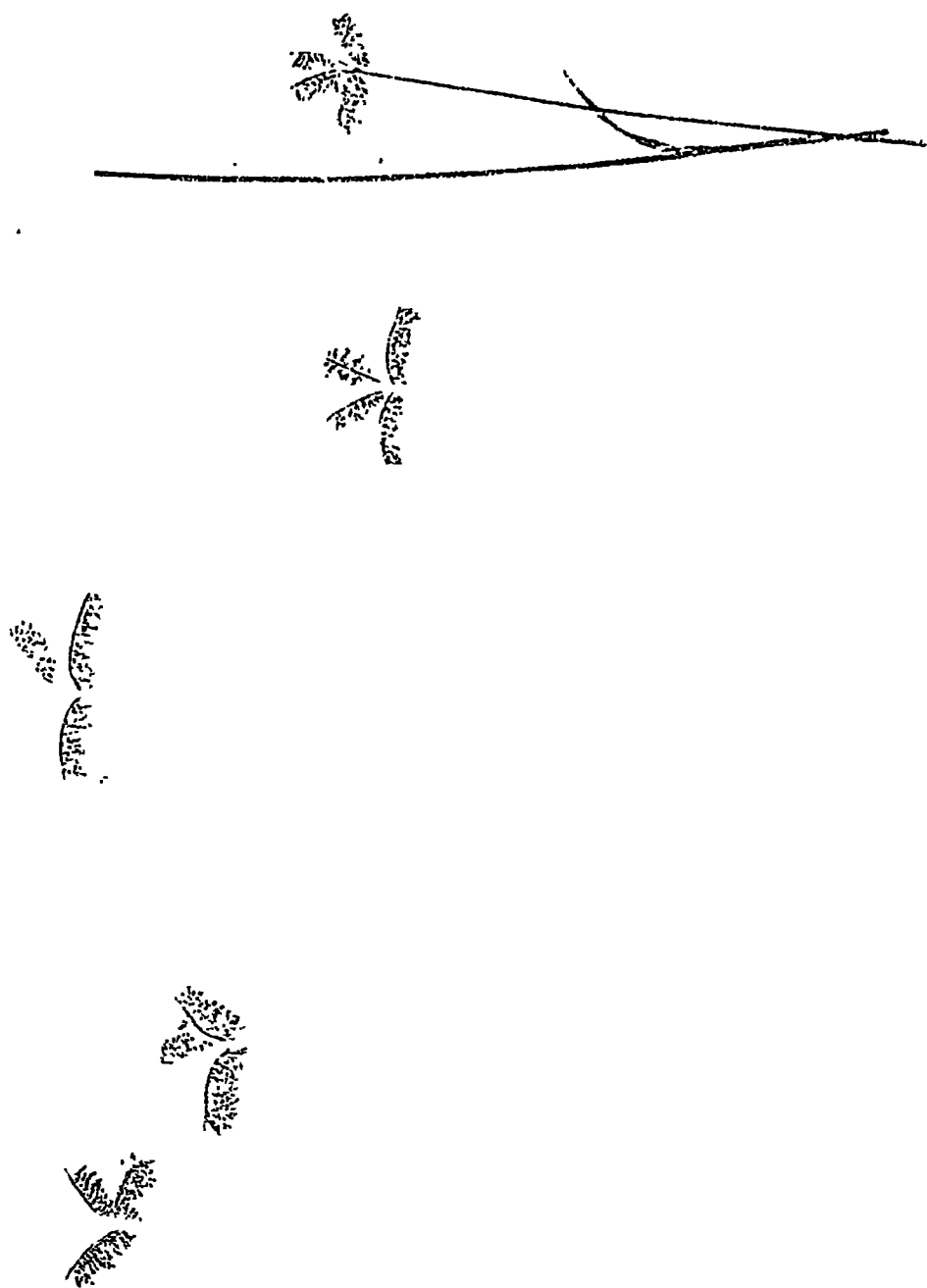


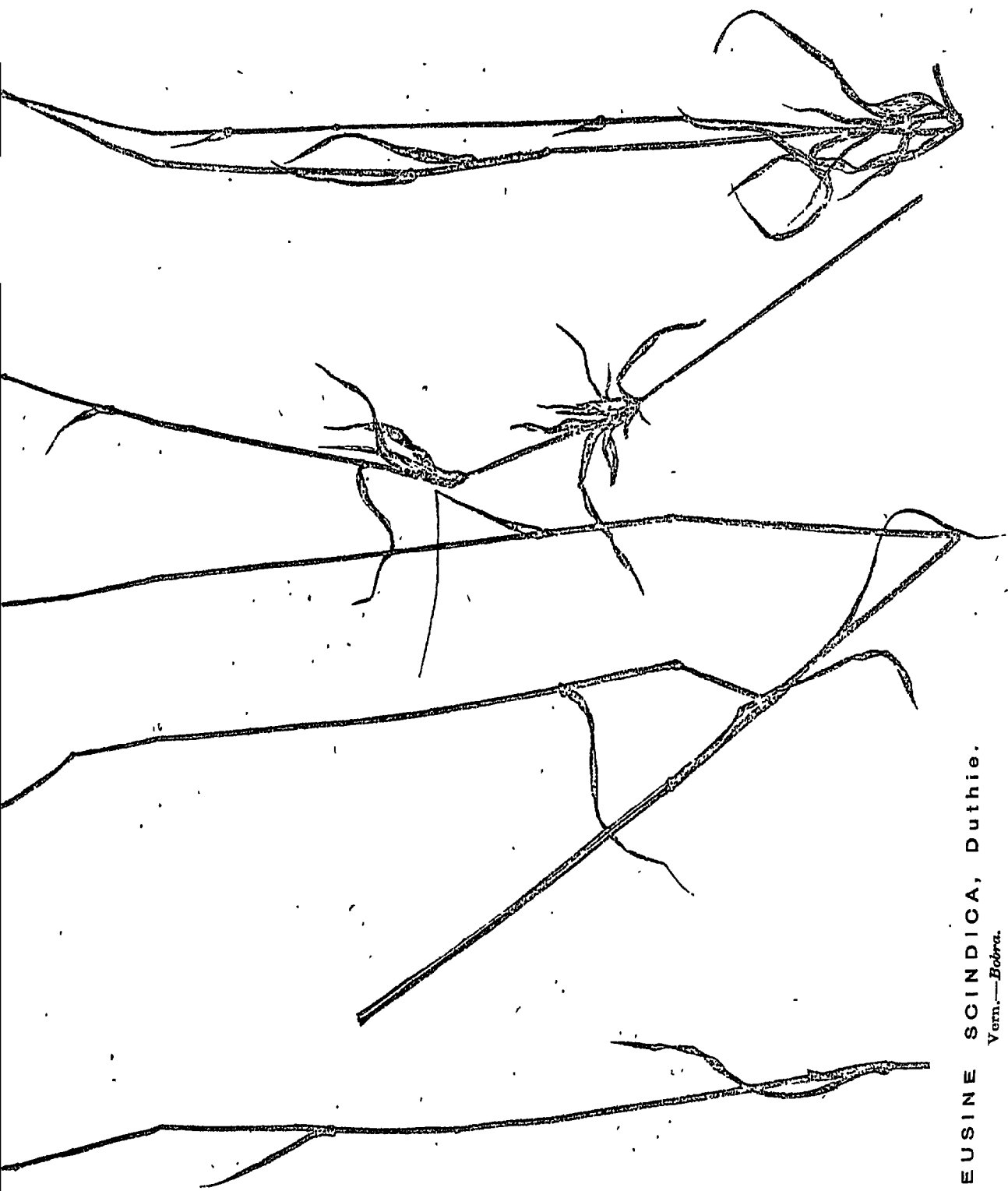
CHLORIS BARBATA. Swartz.



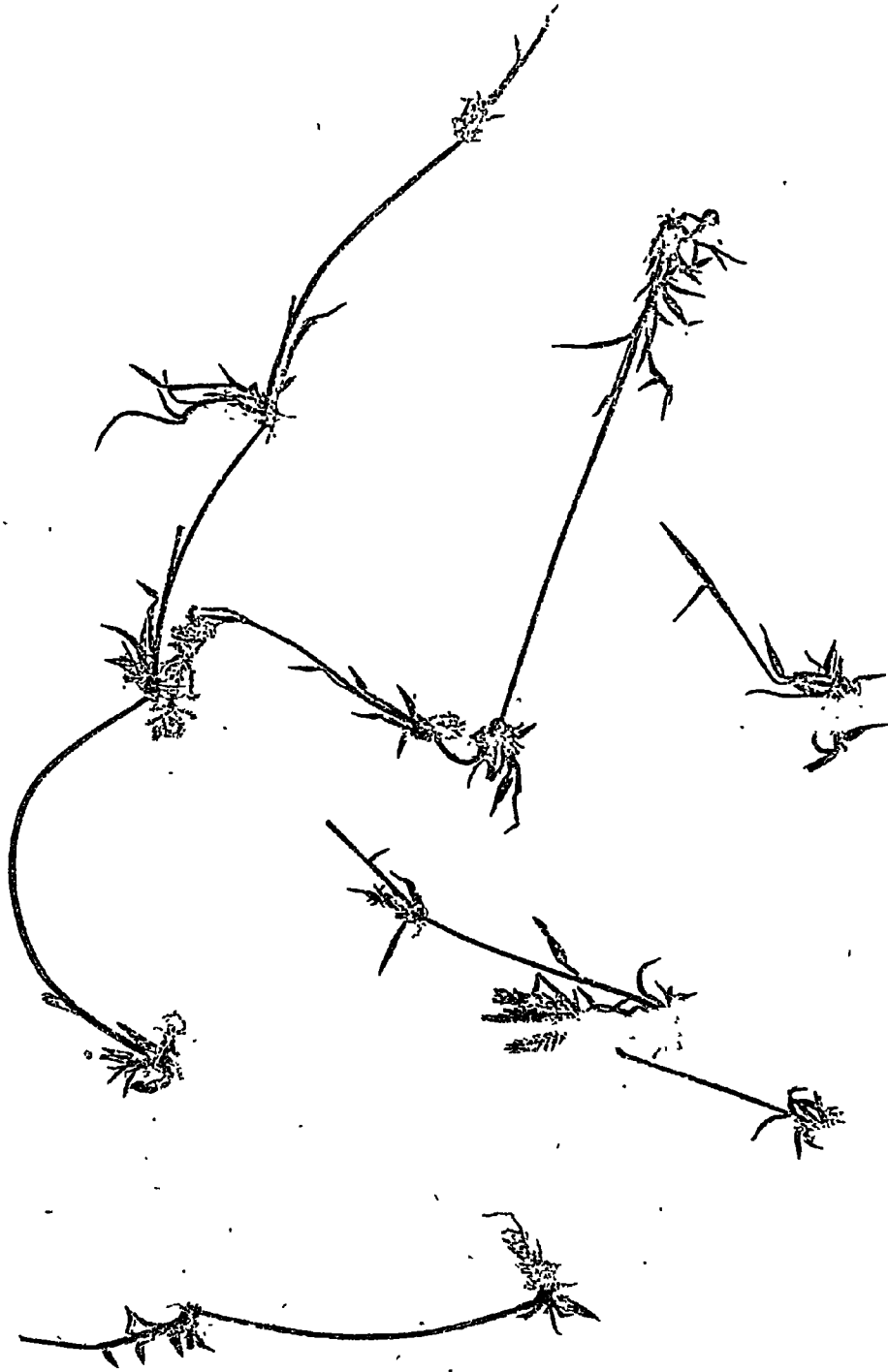


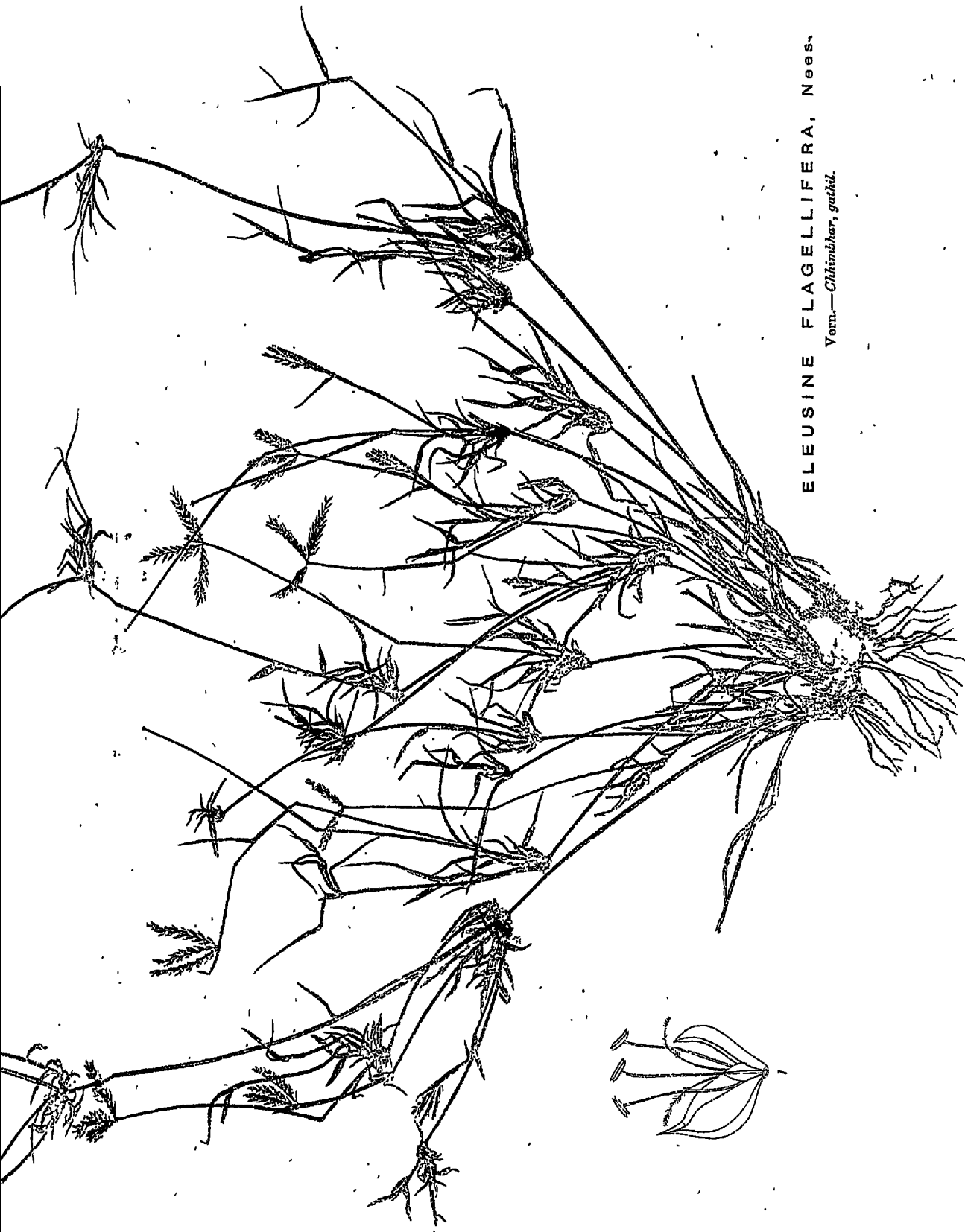
ELEUSINE ÆGYPTIACA, Pers.
Vern.—*Makro, madhina.*



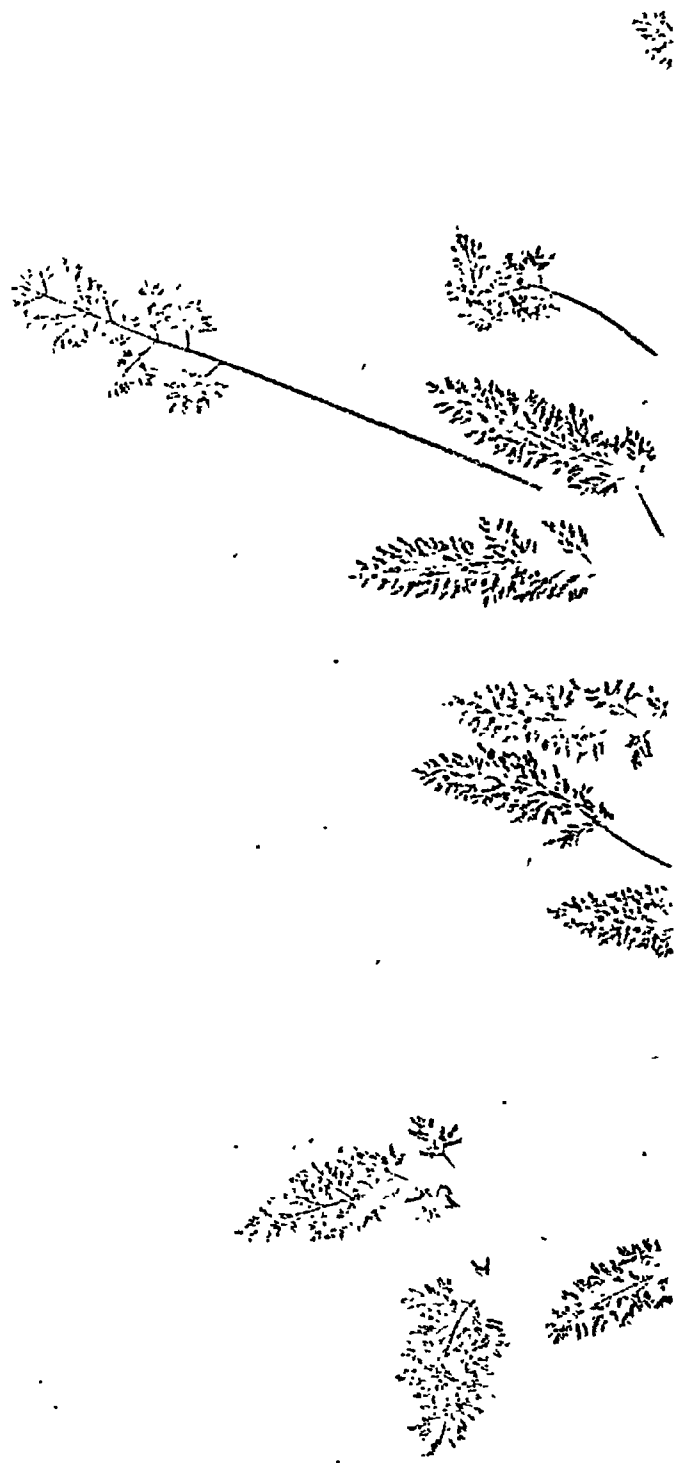


· ELEUSINE SCINDICA, Duthie.
Vern.—*Bobra*.



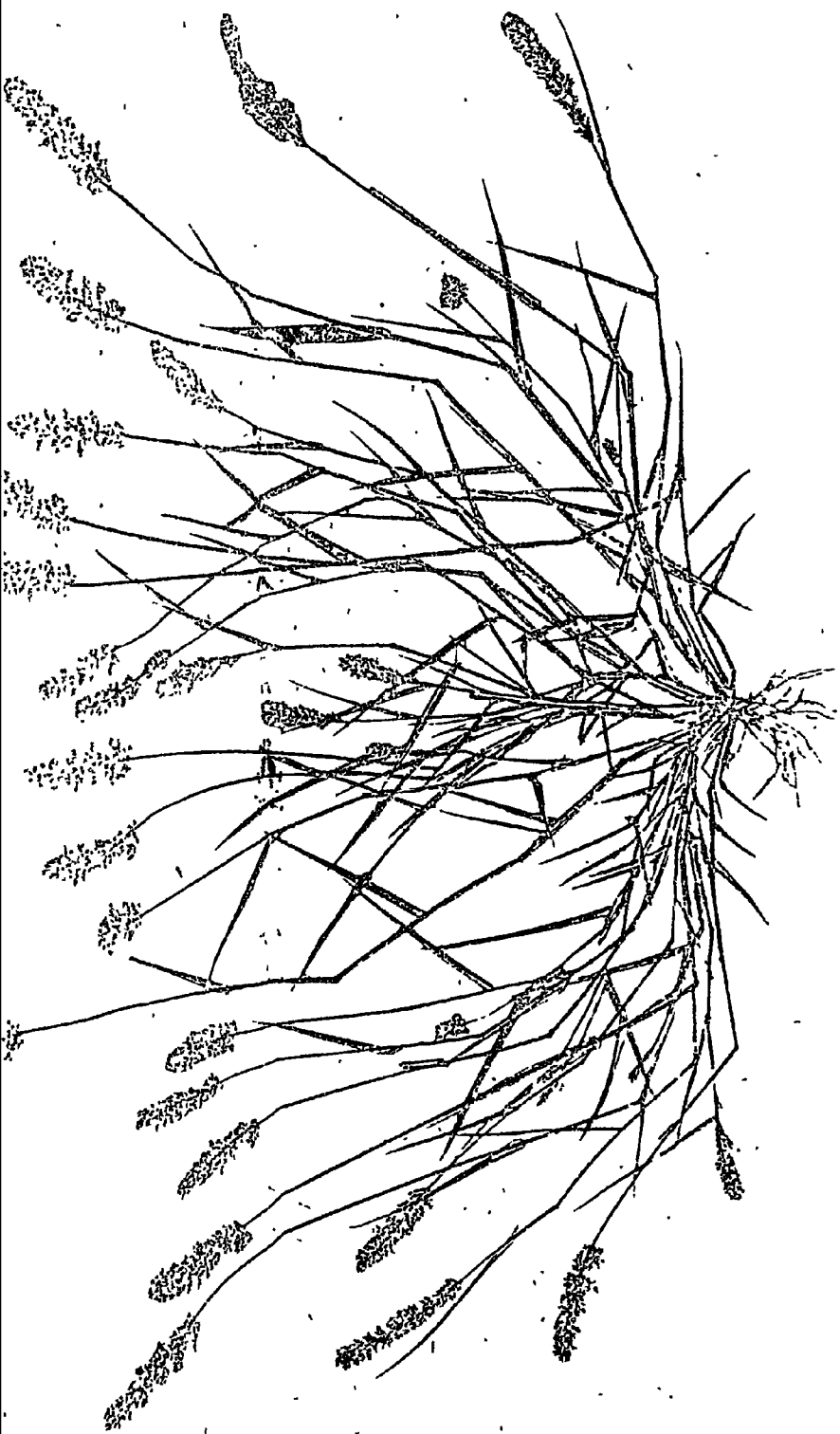


ELEUSINE FLAGELLIFERA, Nees.
Vern.—*Chhinchhar, gattil.*

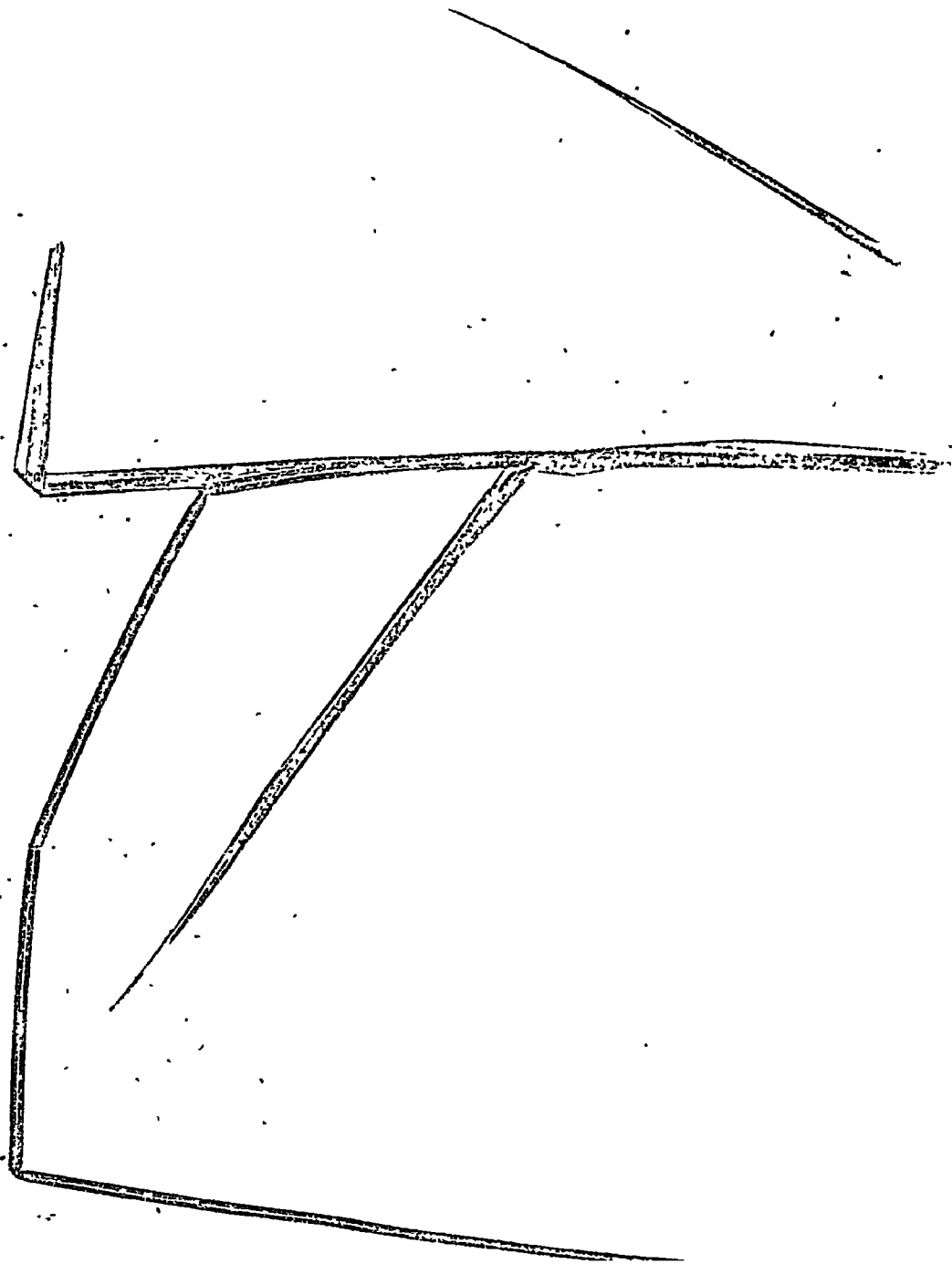


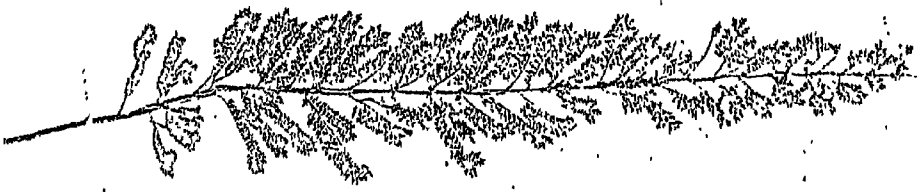
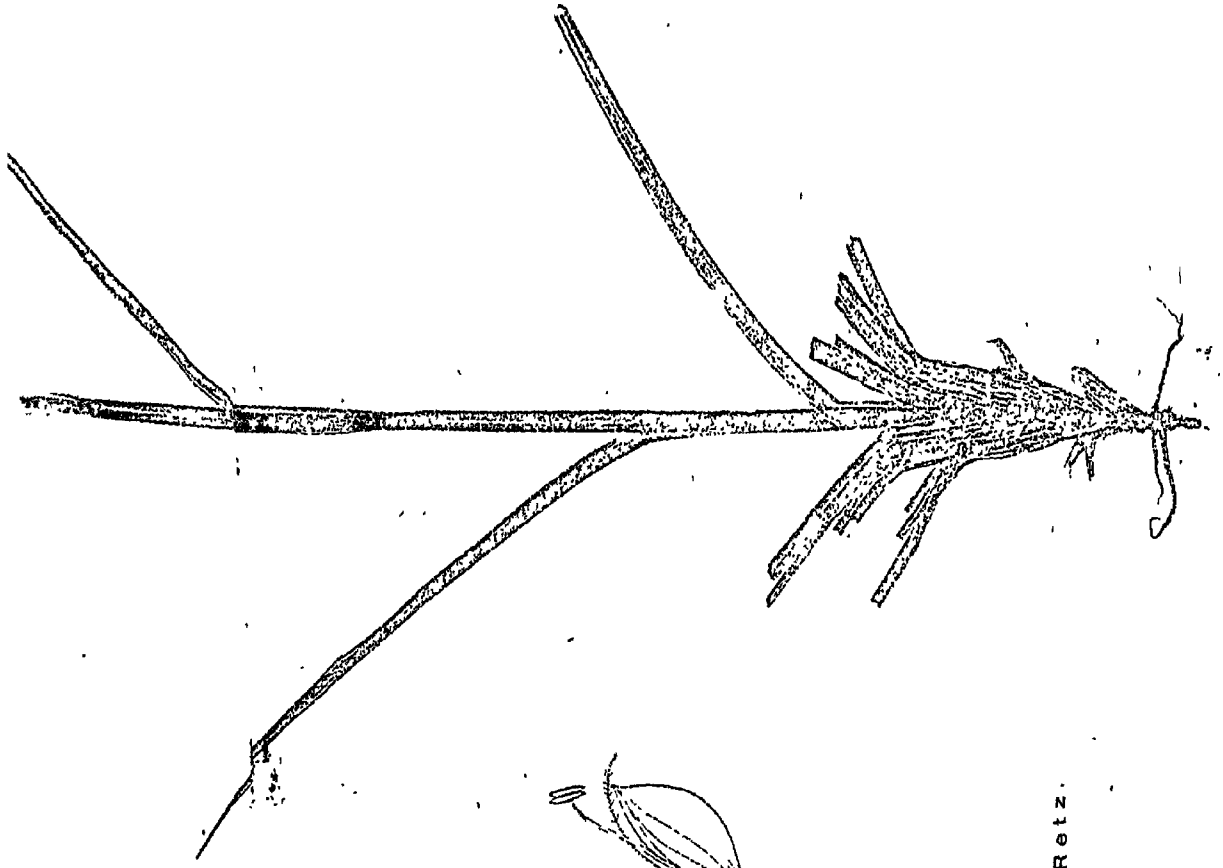


ERAGROSTIS CILIARIS, Link.



ERAGROSTIS CILIARIS, Link.
Var. brachystachya.





ERAGROSTIS CYNOSUROIDES, Retz.

Vern.—Dab, dab, kása (2).